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DR PROST1; PS00031; NUCLEAR RECEPTOR; 1.  
 KW Metal-binding; Nuclear protein; Receptor; Transcription;  
 KW Transcription regulation; Zinc; Zinc-finger.  
 SO SEQUENCE 896 AA; 97094 MW; 4405F56E73BD796 CRC64;

Query Match 98.4%; Score 1349.5; DB 6; Length 896;  
 Best Local Similarity 99.6%; Pred. No. 3 5e-119; 0; Mismatches 0; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Db 65 SH-IEGYECOPFLVNLRAIBPGVCAAGIDNNQDPSFAALLSINELGEROLVHVKWAK 713  
 Qy 2 SHMIGYECOPFLVNLRAIBPGVCAAGIDNNQDPSFAALLSINELGEROLVHVKWAK 62  
 Db 62 ALPGFRNLHYDQMAVIOQYSWMLVAMGMSFTNNSRMYFAPDLYFENYRMKSRM 121  
 Qy 639 SH-IEGYECOPFLVNLRAIBPGVCAAGIDNNQDPSFAALLSINELGEROLVHVKWAK 61  
 Db 698 ALPGFRNLHYDQMAVIOQYSWMLVAMGMSFTNNSRMYFAPDLYFENYRMKSRM 757  
 Qy 122 YSOQVNRHLSQEFQWLOITPQEFCLMKALLSIPITVPGLNQKFDELRYMYKELDR 181  
 Db 758 YSOQVNRHLSQEFQWLOITPQEFCLMKALLSIPITVPGLNQKFDELRYMYKELDR 817  
 Qy 182 IIACKRKNPSCSRFVQTLKLSVQPIARSHQFTFLKSHMSVDPENMAEIS 241  
 Db 818 IIACKRKNPSCSRFVQTLKLSVQPIARSHQFTFLKSHMSVDPENMAEIS 877  
 Qy 242 VQVPKILSGKVPKPYFHTQ 260  
 Db 878 VQVPKILSGKVPKPYFHTQ 896

RESULT 2

Q8MIKO PRELIMINARY; PRT; 912 AA.  
 AC Q8MIKO;  
 DT 01-OCT-2002 (TREMBREL. 22, Created)  
 DT 01-OCT-2002 (TREMBREL. 22, Last annotation update)  
 DT 01-MAR-2003 (TREMBREL. 23, Last annotation update)  
 DE Androgen receptor.  
 OS Crocuta crocata. (Spotted hyena).  
 OC Mammalia; Buteraria; Carnivora; Fissipedia; Hyenidae; Crocuta.  
 OX NCBI\_TaxID:9678;  
 RN SEQUENCE FROM N.A.  
 RA Catalano S., Avila D.M., McPhaul M.J., Marsico S., Wilson J.D.,  
 RA Glickman S.E.;  
 RT "Absence of association of the virilization of the female spotted hyena with alterations of the amino acid sequence of the androgen receptor (AR);"  
 RL 0:0-0 (2002).  
 CC -- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).  
 CC -- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.  
 DR InterPro; IPR001103; Androgen receptor.  
 DR InterPro; IPR001103; Androgen receptor.  
 DR InterPro; IPR000536; Hormone rec\_lig.  
 DR InterPro; IPR0011628; Znf\_C4steroid.  
 DR Pfam; PF01166; Androgen receptor; 1.  
 DR Pfam; PF00104; hormone\_rec; 1.  
 DR Pfam; PF00105; zf-C4; 1.  
 DR PRINTS; PR00047; STROIDINGER.  
 DR Prodom; PD000035; Znf\_C4steroid; 1.  
 DR SMART; SM003430; Holo; 1.  
 DR SMART; SM00399; Znf\_C4; 1.  
 DR PROST1; PS00031; NUCLEAR RECEPTOR; 1.  
 DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;  
 KW Transcription regulation; Zinc; Zinc-finger.  
 SO SEQUENCE 912 AA; 99557 MW; 8F5EC5B1E43C51 CRC64;

Query Match 98.2%; Score 1346.5; DB 6; Length 912;  
 Best Local Similarity 99.2%; Pred. No. 6 8e-119; 0; Mismatches 0; Indels 1; Gaps 1;  
 Matches 257; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Db 65 SH-IEGYECOPFLVNLRAIBPGVCAAGIDNNQDPSFAALLSINELGEROLVHVKWAK 713  
 Qy 2 SHMIGYECOPFLVNLRAIBPGVCAAGIDNNQDPSFAALLSINELGEROLVHVKWAK 62  
 Db 649 SH-IEGYECOPFLVNLRAIBPGVCAAGIDNNQDPSFAALLSINELGEROLVHVKWAK 707  
 Qy 122 YSOQVNRHLSQEFQWLOITPQEFCLMKALLSIPITVPGLNQKFDELRYMYKELDR 181  
 Db 768 YSOQVNRHLSQEFQWLOITPQEFCLMKALLSIPITVPGLNQKFDELRYMYKELDR 827



DB Androgen receptor (Fragment).  
 OS Poephila guttata (Zebra finch). (Taenioptygia guttata).  
 OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 OC Archosauia; Aves; Neognathae; Passeriformes; Estrildidae;  
 OC Estrildine; Taenioptygia.  
 OC NCBI\_TaxID=59728;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Perlman W.R., Ramachandran B., Arnold A.P.;  
 RT "Expression of Androgen Receptor mRNA in the Late Embryonic and Early  
 RL Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.  
 CC -!- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).  
 DR EMBL: AF52914; NM96593.1; -.  
 DR InterPro: IPR00536; Hormone\_rec\_lig.  
 DR InterPro: IPR001723; Stdhorm\_receptor.  
 DR InterPro: IPR01628; Znf\_C4steroid.  
 DR Pfam: PF000104; zf-C4; 1.  
 DR PRINTS: PRO0398; STDHORMONER.  
 DR PRODOM: PDO00035; Znf\_C4steroid; 1.  
 DR SMART: SM00399; Znf\_C4; 1.  
 DR SMART: SM00399; Znf\_C4; 1.  
 DR KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;  
 KW Transcription regulation; Zinc; Zinc-finger.  
 FT NON\_TER 1 1  
 SQ SBQQUENCE 333 AA; 38536 MW; B36A7778B710B790 CRC64;

Query Match Best Local Similarity 93.4%; Score 1285; DB 13; Length 333;  
 Matches 239; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 5 IEGYECOPIFNLNLAIEPGVTCAGHDNNQPSPAUSSLNELGEROLVHVKWAKALP 64  
 DB 78 IDGYECOPIFNLNLAIEPGVTCAGHDNNQPSPAUSSLNELGEROLVHVKWAKALP 137

QY 65 GFRNTLAVDQMVAVQWNGLAVPAMGRSPVNNSMLYFADLYVNEVYRHKMSMQ 124  
 DB 138 GFRNLAVDQMVAVQWNGLAVPAMGRSPVNNSMLYFADLYVNEVYRHKMSMQ 197

QY 125 CWRMRHLSQERWLTQIPOERFCKMALLFSTIPVGQIKNQKPFDSLRLMTXKEDRITA 184  
 DB 198 CWRMRHLSQERWLTQIPOERFCKMALLFSTIPVGQIKNQKPFDSLRLMTXKEDRITA 257

QY 185 CRRKNPPTCSRRPYQTLKLSVQPIRRLKQPTPOLIKSHMSVDPPEMARTISQV 244  
 DB 258 CRRKNPPTCSRRPYQTLKLSVHPTAKDQHPTFDLIKHMSVDPPEMARTISQV 317

QY 245 PKILSGKVKPVIFHTQ 260  
 DB 318 PKILSGKVKPVIFHTQ 333

RESULT 7  
 P70048 PRELIMINARY; PRT; 790 AA.  
 AC P70048;  
 DT 01-FEB-1997 (TREMBrel. 02, Created)  
 DT 01-JAN-1999 (TREMBrel. 09, Last sequence update)  
 DT 01-OCT-2002 (TREMBrel. 22, Last annotation update)  
 DE Androgen receptor alpha isoform.  
 XU ALPHA\_AR.  
 OS Xenopus laevis (African clawed frog).  
 OC BukaYota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;  
 OC Xenopodinae; Xenopus.  
 OC NCBI\_TaxID=8355;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=93376782; PubMed=7690145;  
 RA Fischer L., Catz D., Kelley D.;  
 RT "An androgen receptor mRNA isoform associated with hormone-induced cell proliferation." Proc. Natl. Acad. Sci. U.S.A. 90:8254-8258 (1993).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 ID 091445 PRELIMINARY; PRT; 344 AA.  
 AC 091445;  
 DT 01-NOV-1996 (TREMBrel. 01, Created)  
 DT 01-NOV-1996 (TREMBrel. 01, Last sequence update)  
 DT 01-OCT-2002 (TREMBrel. 22, Last annotation update)  
 DB Androgen receptor (Fragment).  
 AR.  
 OS Serinus canaria (Canary).  
 OC BukaYota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 OC Archosauia; Aves; Neognathae; Passeriformes; Passeroidea;  
 OC Fringillidae; Carduelinae; Serinus.  
 OC NCBI\_TaxID=9135;  
 RN [1]  
 RP SEQUENCE FROM N.A.





Db 578 NLHDDQMVIVLQISWGMVNVFGLGWRSYKVNNSRLYFAPDLVNEHRHISTYHCR 637 Qy 188 KNPTSCSRFFVQLTKLDSVPIARELHQFTFDLJLKSHM--SVDPPEMMABISVQVP 245  
 Qy 128 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Db 638 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Qy 188 KNPTSCSRFFVQLTKLDSVPIARELHQFTFDLJLKSHM--SVDPPEMMABISVQVP 245  
 Db 698 N--TNCDFQYQFLTRLDSLQMTVKKLUHFTDLPVQASLPTKVSPMEMIGRILSHVP 755  
 Qy 246 KILSGKVVKPIYFH 258  
 Db 756 KILAGLAKBILFH 768

RESULT 13  
 ID Q9PWGS PRELIMINARY; PRT; 797 AA.  
 ID Q9PWGS  
 AC Q9PWGS;  
 DT 01-MAY-2000 (TREMBrel. 13, Created)  
 DT 01-MAY-2000 (TREMBrel. 13, Last sequence update)  
 DT 01-OCT-2002 (TREMBrel. 22, Last annotation update)  
 DB Androgen receptor-beta.  
 GN AR-BETA.  
 OS Anguilla japonica (Japanese eel).  
 OC Bokaryota; Chordata; Craniata; Vertebrata; Buteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Anguilliformes; Anguillidae;  
 OX NCBI\_TaxID:7937;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=99495076; PubMed=10464240;  
 RA Ikauchi T.; Todo T.; Kobayashi T.; Nagahama Y.;  
 RT "cDNA cloning of a novel androgen receptor subtype.";  
 RL J. Biol. Chem. 274:25205-25205(1999).  
 CC -- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).  
 CC -- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.  
 DR EMBL; AB025361; BRA8805.1; --.  
 DR HSSP; P06556; IGD.  
 DR InterPro; IPR001103; Androgen receptor.  
 DR InterPro; IPR000536; Hormone\_rec\_lig.  
 DR InterPro; IPR001723; Sterbrm receptor.  
 DR InterPro; IPR001628; Znf\_C4steroid.  
 DR Pfam; PF0166; Androgen\_Recep; 1.  
 DR Pfam; PF00104; hormone\_rec; 1.  
 DR Pfam; PF00105; zf-C4; 1.  
 DR Prints; PR00398; STRDHORMONER.  
 DR Prints; PR00047; STRDHPINGER.  
 DR Prints; PR00035; Znf\_C4steroid; 1.  
 DR SMART; SM00430; HOM; 1.  
 DR SMART; SM00395; Znf\_C4; 1.  
 DR PROSITE; PS00031; NUCLEAR\_RECPRTOR; 1.  
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;  
 KW Transcription regulation; Zinc; Zinc-finger.  
 KW SEQUENCE 797 AA; 89924 MW; CPIDSP21REBA5691 CRC64;  
 SQ Best Local Similarity 67.5%; Score 925; DB 13; Length 797;  
 Matches 175; Conservative 35; Mismatches 39; Indels 4; Gaps 2;  
 Qy 8 YECQPIPLVNLRAIEPGVWCAHHDNQPSFAALLSSLNLSLGERQVHVKAKALPGR 67  
 Db 546 FPTQSVPLNLISIEPPEVWAGHDYQGTDSSATLJLISLNELGERQFLKVVKWAKLPGFR 605  
 Qy 68 NLHDDQMVIVLQISWGMVNVFGLGWRSYKVNNSRLYFAPDLVNEHRHISTYHCR 127  
 Db 606 NHVDDQMVIVLQISWGMVNVFGLGWRSYKVNNSRLYFAPDLVNEHRHISTYHCR 67  
 Qy 128 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Db 432 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Qy 188 KNPTSCSRFFVQLTKLDSVPIARELHQFTFDLJLKSHM--SVDPPEMMABISVQVP 245  
 Db 492 K--TNCDFQYQFLTRLDSLQMTVKKLUHFTDLPVQASLPTKVSPMEMIGRILSHVP 549  
 Db 666 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Qy 246 KILSGKVVKPIYFH 258  
 ID Q9DDA4 PRELIMINARY; PRT; 563 AA.  
 AC Q9DDA4;  
 DT 01-MAR-2001 (TREMBrel. 16, Created)  
 DT 01-MAR-2001 (TREMBrel. 16, Last sequence update)  
 DT 01-MAR-2003 (TREMBrel. 23, Last annotation update)  
 DB Androgen receptor (Fragment).  
 GN AR.  
 OS Halichoeres trimaculatus (Three-spot wrasse).  
 OC Bokaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 OC Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei;  
 OC Acanthomorpha; Acanthopterygii; Perciformes; Labroidei;  
 OC Labridae; Halichoeridae.  
 OX NCBI\_TaxID:14732;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Kim S.-J.; Kei O.; Takemura A.; Nakamura M.;  
 RT "Partial sequence and expression of androgen and estrogen receptor genes in the protogynous wrasse, Halichoeres trimaculatus.";  
 RL Submitted (DKE-2000) to the EMBL/GenBank/DDBJ databases.  
 CC -- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).  
 CC -- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.  
 DR EMBL; AR26200; AA648340.1; --.  
 DR HSSP; P06556; IGD.  
 DR InterPro; IPR000536; Hormone\_rec\_lig.  
 DR InterPro; IPR001723; Sterbrm receptor.  
 DR InterPro; IPR001628; Znf\_C4steroid.  
 DR Pfam; PF00104; hormone\_rec; 1.  
 DR Prints; PR00398; STRDHORMONER.  
 DR Prints; PR00047; STRDHPINGER.  
 DR Prints; PR00035; Znf\_C4steroid; 1.  
 DR SMART; SM00430; HOM; 1.  
 DR SMART; SM00395; Znf\_C4; 1.  
 DR PROSITE; PS00031; NUCLEAR\_RECPRTOR; 1.  
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;  
 KW Transcription regulation; Zinc; Zinc-finger.  
 FT NON\_TER 1 1  
 SQ SEQUENCE 563 AA; 64352 MW; A744C3728F004AF6 CRC64;  
 Qy Best Local Similarity 66.4%; Score 911; DB 13; Length 563;  
 Matches 176; Conservative 31; Mismatches 42; Indels 4; Gaps 2;  
 Qy 8 YECQPIPLVNLRAIEPGVWCAHHDNQPSFAALLSSLNLSLGERQVHVKAKALPGR 67  
 Db 312 FPTQSVPLNLISIEPPEVWAGHDYQGTDSSATLJLISLNELGERQFLKVVKWAKLPGFR 371  
 Qy 68 NLHDDQMVIVLQISWGMVNVFGLGWRSYKVNNSRLYFAPDLVNEHRHISTYHCR 127  
 Db 372 NLHDDQMVIVLQISWGMVNVFGLGWRSYKVNNSRLYFAPDLVNEHRHISTYHCR 431  
 Qy 128 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Db 432 MRHLSQERGWLQTPQSFCLMKALILFSIIPVQDGLKQKFPLRMVYKELDRACKR 187  
 Qy 188 KNPTSCSRFFVQLTKLDSVPIARELHQFTFDLJLKSHM--SVDPPEMMABISVQVP 245  
 Db 492 K--TNCDFQYQFLTRLDSLQMTVKKLUHFTDLPVQASLPTKVSPMEMIGRILSHVP 549  
 Qy 246 KILSGKVVKPIYFH 258

Db 550 KILLAGKPLFH 562

RESULT 15

Q9YCV9 PRELIMINARY; PRT; 848 AA.

ID Q9YCV9;

AC 01-MAY-1999 (REMBLrel. 10, Created)

DT 01-MAY-1999 (REMBLrel. 10, last sequence update)

DT 01-MAR-2003 (REMBLrel. 23, Last annotation update)

DB Androgen receptor alpha.

OS *Anguilla japonica* (Japanese eel).

OC Rukaryota; Metzoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Actinopterygii; Neopterygii; Teleostei; Anguilliformes; Anguillidae;

OC Anguilla.

OX NCBI-TaxID=7937;

RN [1]

RP SEQUENCE FROM N.A.

RX TISSUE=Testicis;

RX MEDLINE=99119319; PubMed=9918846;

RA Todo T., Ikeuchi T., Kobayashi T., Nagahama Y.; activation of

RT "Fish androgen receptor: cDNA cloning, steroid activation of

RT transcription in transfected mammalian cells, and tissue mRNA

RT levels.", "— SIMILARITY BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.

RL Biochem. Biophys. Res. Commun. 254:378-383 (1999).

CC -!- SUBCELLULAR LOCATION (BY SIMILARITY).

DR EMBL; AB023960; BAA75464.1; -.

DR HSSP; P05536; 1GDC.

DR InterPro; IPR001103; Androgen receptor.

DR InterPro; IPR000536; Hormone\_rec\_11g.

DR InterPro; IPR001723; Steroid\_Receptor.

DR SMART; SM00430; HOLL\_1.

DR Pfam; PF02166; Androgen\_Recep; 1.

DR Pfam; PF001104; hormone\_rec; 1.

DR Pfam; PF001105; zf-C4; 1.

DR PRINTS; PRO0389; SPREDHORMONE.

DR PRODOM; PD000035; Znf\_C4sF0roid.

DR SMART; SM00399; Znf\_C4; 1.

DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.

KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;

KW Transcription regulation; Zinc; Zinc-finger.

SEQUENCE 848 AA; 94692 MW; A8889AFTF2E5D03E CRC64;

Query Match 66.3%; Score 909; DB 13; Length 848;

Best Local Similarity 68.5%; Pred. No. 1. 9e-77;

Matches 174, Conservative 36, Mismatches 40, Indels 4, Gaps 2;

QY 7 GYECOPFLVNLATERPGVYAGHDNQDPSFAAISLNLGEROLVHVKWAKALRGP 65

Db 596 GFTQSMFLNLTEATPEVWVAGHDYQDPSAASLITSLBGEROLVKVVKWAKGMPF 655

QY 67 RMLHDDOMAVIQYSQMLPAMGSRSTFVNNSMIVRPLDVENYRMAKSKWMSQCV 125

Db 656 RSLVYDQDMTWI0HSMWAVVFLGWSRSPKVKNSRMLYFAPDLVNEHRWQSYTMECI 715

QY 127 RMRHLSQFGWILQITPQBLFLCKALILPSITFVPGDKNQKEFDELMNYKELDRIACK 186

Db 716 RMKNTSQEFLAMLQVSQEEFLQMKALLFSTPVEGJKGQFDELRSYNLELRVSPR 775

QY 187 RKNPNTCSRRLYQLTQKLDSSVQPTAERLHOPFDLQIKNSVS-VDPREMMAEITSVQV 244

Db 776 SK--SSCSBRFQQLTRLDSLQPVLKLUHQFTFDLFLVQSONLSNOVCPPEMISEISVHV 833

QY 245 PKILSKVVKPFLH 258

Db 834 PKILAGPVKPFLH 847

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OM protein - protein search, using sw model

Run on: October 9, 2003, 11:39:08 ; Search time 11 Seconds

Perfect score: 1371 ; (without alignments)

Sequence: US-09-687-609A-1

US-09-687-609A-1  
1 GSHMIEGECQPIFLNVEA.....SVQVPKILSGKVKPIVFHTQ 260

Title: 1111.540 Million cell updates/sec

Scoring table: Biolum62

Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% ; Maximum Match 100% ; Listing first 45 summaries

Database : SwissProt\_41;\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1349.5	98.4	709	1 ANDR_RABIT	P49699 oryctolagus
2	1349.5	98.4	884	1 ANDR_EULFC	097776 eulemur ful
3	1349.5	98.4	915	1 ANDR_MACFA	097960 papio hamad
4	1349.5	98.4	895	1 ANDR_PAPHA	097961 mus musculus
5	1349.5	98.4	899	1 ANDR_MOUSE	P19091 ratus norv
6	1349.5	98.4	902	1 ANDR_RAT	P15207 ratus norv
7	1349.5	98.4	907	1 ANDR_CANFA	Q9TQ90 canis famili
8	1349.5	98.4	911	1 ANDR_PANTR	097775 pan troglod
9	1349.5	98.4	919	1 ANDR_HUMAN	P01275 homo sapien
10	766	55.9	930	1 PRGR_RABIT	P06186 oryctolagus
11	765	55.8	933	1 PRGR_HUMAN	P06401 homo sapien
12	759	55.4	923	1 PRGR_RAT	Q63449 ratus norv
13	758	55.3	924	1 PRGR_MOUSE	Q00175 mus musculus
14	752	54.9	786	1 PRGR_CHICK	P07812 gallus gallus
15	738	53.8	377	1 PRGR_SHEEP	Q28390 ovis aries
16	677.5	49.4	359	1 MCR_ONCNY	Q9i466 oncorhynchus
17	666	48.6	978	1 MCR_MOUSE	Q8V318 mus musculus
18	645	48.5	984	1 MCR_HUMAN	P08235 homo sapiens
19	664.5	48.5	777	1 GCR_ACTINA	P79886 actus nancyae
20	664.5	48.5	777	1 GCR_SALBB	O13186 salmire bolei
21	664.5	48.5	778	1 GCR_SALISC	Q46567 salmire scii
22	662.5	48.3	777	1 GCR_HUMAN	P04150 homo sapiens
23	662	48.3	981	1 MCR_RAT	P22199 rattus norvegicus
24	662	48.3	982	1 MCR_SALISC	P07886 salmire scii
25	661.5	48.2	777	1 GCR_SAGOR	P79269 sagomia ocellata
26	660.5	48.2	772	1 GCR_RABIT	P59667 oryctolagus
27	660	48.1	612	1 MCR_XENLA	Q91773 xenopus laevis
28	657.5	48.0	783	1 GCR_MOUSE	P06537 mus musculus
29	652.5	47.6	776	1 GCR_TUPGB	Q95267 tupaias glis
30	47.5	807	1 GCR_PAROL	O73673 paralichthys	
31	650.5	47.4	776	1 GCR_XENLA	P49844 xenopus laevis
32	648.5	47.3	758	1 GCR_ONCNY	P49843 oncorhynchus
33	644.5	47.0	771	1 GCR_CAVPO	P49115 cavia porcellus

### ALIGNMENTS

34	638.5	46.6	795	1 GCR_RABIT	P06536 rattus norvegicus
35	615	44.9	977	1 MCR_TUPGB	Q29331 tupaias glis
36	590	43.0	258	1 MCR_SHBEP	Q96017 ovis aries
37	580	42.3	711	1 GCR_PIG	Q91113 sus scrofa
38	391	28.5	164	1 MCR_PIG	P79404 sus scrofa
39	387	28.2	180	1 PRGR_MACBU	P77373 macropus eu
40	342	24.9	147	1 MCR_CHICK	Q8bh12 gallus gallus
41	237	17.3	569	1 ESRI_BRARGE	P57717 brachymanus
42	228.5	16.7	581	1 ESRI_PAGMA	Q42132 pagrus major
43	227.5	16.6	617	1 ESRI_ICIP7	Q9YH37 icthalius pectoralis
44	223	16.3	307	1 ESRI_CNEUN	Q91424 cnemidophorus
45	222	16.2	535	1 ESRI_SALSA	P50242 salmo salar

PT ZN FINGER 349 369 C4-TYPE.  
 PT ZN FINGER 385 409 C4-TYPE.  
 PT DOMAIN 480 709 LIGAND-BINDING.  
 PT DOMAIN 3 6 POLY-GLN.  
 PT DOMAIN 182 187 POLY-PRO.  
 PT DOMAIN 201 207 POLY-ALA.  
 PT DOMAIN 254 262 POLY-GLY.  
 SQ SEQUENCE 709 AA; 77391 MW; 40B76613E97B6B CRC64;

Query Match 98.4%; Score 1349.5; DB 1; Length 709;  
 Best Local Similarity 99.6%; Pred. No. 2; e-118; 0; Mismatches 0; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Prob00035; Znf\_C4steroid; 1.

Qy 2 SHMIEGYCQPIFLVNLRAIEBPGVCAHGHDNNQDPSFAALLSSLNELGEROLHVVKWAK 61  
 452 SH-IEGYECQPIFLVNLRAIEBPGVCAHGHDNNQDPSFAALLSSLNELGEROLHVVKWAK 510

Qy 62 ALPGERNLHVDDOMAVIOQYSWGMGLVFMGWSPTNNSRMLYAPDLYVNEYRMKSRM 121  
 511 ALPGERNLHVDDOMAVIOQYSWGMGLVFMGWSPTNNSRMLYAPDLYVNEYRMKSRM 570

Db 122 YSQCVRMRLS0QERGMQIPTQBLCMKALLTSIIPDGLKNOQKFDELRYMVKELDR 181  
 571 YSQCVRMRLS0QERGMQIPTQBLCMKALLTSIIPDGLKNOQKFDELRYMVKELDR 630

Qy 182 IIACKRKNTCSRSRFYQLTKLDSVOPARELHOFTDILKSHMVSDFPENMABILS 241  
 631 IIACKRKNTCSRSRFYQLTKLDSVOPARELHOFTDILKSHMVSDFPENMABILS 690

Qy 242 VQVKLISGKVKPQIYFHQ 260

Db 691 VQVKLISGKVKPQIYFHQ 709

RESULT 2  
 ANDR\_EULFC  
 ID ANDR\_EULFC STANDARD; PRT; 884 AA.  
 AC 097776;  
 DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DE Androgen receptor (Dihydrotestosterone receptor).  
 GN AR OR NR3C1.  
 OS Bulemur fulvus collaris (Colored brown lemur).  
 OC Bulearyota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Butheria; Primates; Strepsirhini; Lemuridae; Bulemur.  
 OX NCBI\_TaxID:47178;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE:98404153; PubMed:9732460;  
 RA Choong C.S.; Kempainen J.A.; Wilson E.M.;  
 RT "Evolution of the primate androgen receptor: a structural basis for  
 RT disease.";  
 RL J. Mol. Biol. 47:334-342 (1998).  
 CC -!- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN  
 THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR  
 PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.  
 CC -!- SUBCELLULAR LOCATION: Nucleus.  
 CC -!- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL STEROID-BINDING DOMAIN,  
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.  
 CC -!- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3  
 CC subfamily.

RESULT 3  
 ANDR\_MACFA  
 ID ANDR\_MACFA STANDARD; PRT; 895 AA.  
 AC 097952;  
 DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DB Androgen receptor (Dihydrotestosterone receptor).  
 AR OR NR3C4.  
 OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).  
 OC Bulearyota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Butheria; Primates; Catarrhini; Cercopithecidae;  
 OC Cercopithecinae; Macaca.  
 OX NCBI\_TaxID:9541;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE:98404153; PubMed:9732460;

DR TRANSFAC; T04655; -;  
 DR InterPro; IPR01133; Andrgn receptor.  
 DR InterPro; IPR00056; Hormone\_rec\_lig.  
 DR InterPro; IPR01733; Sdhrmrn\_receptor.  
 DR InterPro; IPR01638; zif\_1 Castroid.  
 DR Pfam; PRO2166; Androgen\_Recep; 1.  
 DR Pfam; PRO0104; hormone\_rec; 1.  
 DR PRINTS; PRO0398; SPDRHORMONER.  
 DR PRINTS; PRO0047; STRDHPINGER.  
 DR SMART; SM00430; Holi; 1.  
 DR SMART; SM00393; Znf\_C4; 1.  
 DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.  
 DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;  
 KW Zinc-finger; Steroid-binding.  
 FT DOMAIN 1 522 MODULATING (BY SIMILARITY).

FT DNA\_BIND 524 589 NUCLEAR RECEPTOR-TYPE.  
 FT ZN\_FINGER 524 544 C4-TYPE.  
 FT ZN\_FINGER 560 584 C4-TYPE.  
 FT DOMAIN 655 884 LIGAND-BINDING.  
 FT DOMAIN 55 58 POLY-GLN.  
 FT DOMAIN 64 70 POLY-GLN.  
 FT DOMAIN 116 120 POLY-ALA.  
 FT DOMAIN 174 178 POLY-GLN.  
 FT DOMAIN 353 362 POLY-PRO.  
 FT DOMAIN 379 383 POLY-ALA.  
 FT DOMAIN 408 411 POLY-ALA.  
 FT DOMAIN 430 435 POLY-ALA.  
 SQ SEQUENCE 884 AA; 9510 MW; 18P57B352R4D2BD CRC64;

Query Match 98.4%; Score 1349.5; DB 1; length 884;  
 Best Local Similarity 99.6%; Pred. No. 3; e-118; 0; Mismatches 0; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Prob00035; Znf\_C4steroid; 1.

Qy 2 SHMIEGYCQPIFLVNLRAIEBPGVCAHGHDNNQDPSFAALLSSLNELGEROLHVVKWAK 61  
 627 SH-IEGYECQPIFLVNLRAIEBPGVCAHGHDNNQDPSFAALLSSLNELGEROLHVVKWAK 685

Qy 62 ALPGERNLHVDDOMAVIOQYSWGMGLVFMGWSPTNNSRMLYAPDLYVNEYRMKSRM 121  
 686 ALPGERNLHVDDOMAVIOQYSWGMGLVFMGWSPTNNSRMLYAPDLYVNEYRMKSRM 745

Db 122 YSQCVRMRLS0QERGMQIPTQBLCMKALLTSIIPDGLKNOQKFDELRYMVKELDR 181  
 746 YSQCVRMRLS0QERGMQIPTQBLCMKALLTSIIPDGLKNOQKFDELRYMVKELDR 805

Qy 182 IIACKRKNTCSRSRFYQLTKLDSVOPARELHOFTDILKSHMVSDFPENMABILS 241  
 806 IIACKRKNTCSRSRFYQLTKLDSVOPARELHOFTDILKSHMVSDFPENMABILS 865

Qy 242 VQVKLISGKVKPQIYFHQ 260

Db 866 VQVKLISGKVKPQIYFHQ 884

DR EMBL; U94178; AAC73049.1; -.

DR FSSP; P06336; 1GDC.

RA	Choong C.S., Kemppainen J.A., Wilson B.M.; 'a structural basis for evolution of the primate androgen receptor: a structural basis for disease'.
RT	Revolution of the primate androgen receptor: a structural basis for disease.
RL	J. Mol. Evol. 47:334-342 (1998).
CC	-!- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
CC	-!- SUBCELLULAR LOCATION: Nuclear.
CC	-!- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
CC	-!- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3 subfamily.
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <a href="http://www.ibb-sib.ch/announce/">http://www.ibb-sib.ch/announce/</a> or send an email to <a href="mailto:license@ibb-sib.ch">license@ibb-sib.ch</a> ).
CC	EMBL: U94179; AAC73050.1; -.
DR	HSSP; P06536; IGDC.
DR	TRANSFAC; T04654; -.
DR	InterPro; IPR001103; Andrgn_receptor.
DR	InterPro; IPR001628; Znf_C4steroid.
DR	PF0166; Androgen_Recep; 1.
DR	Pfam; PF00104; Hormone_rec; 1.
DR	PRINTS; PR00047; STRO4DFINGER.
DR	PRODOM; PD00035; Znf_C4steroid; 1.
DR	SMART; SM00430; HOM1; 1.
DR	SMART; SM00399; Znf_C4; 1.
DR	PROSITE; PS00031; NUCLEAR_RECEPATOR; 1.
KW	Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger; Steroid-binding.
FT	DOMAIN 1 533 MODULATING (BY SIMILARITY).
FT	DNA_BIND 535 NUCLEAR RECEPTOR-TYPE.
FT	ZN_FINGER 535 C4-TYPE.
FT	ZN_FINGER 571 C4-TYPE.
FT	DOMAIN 666 LIGAND-BINDING.
FT	DOMAIN 55 62 POLY-GLN.
FT	DOMAIN 69 74 POLY-GLN.
FT	DOMAIN 178 182 POLY-GLN.
FT	DOMAIN 367 366 POLY-PRO.
FT	DOMAIN 381 387 POLY-ALA.
FT	DOMAIN 434 448 POLY-GLY.
SQ	SEQUENCE 895 AA: 96494 MW: AEBB17916F43A097 CRC64: Query Match Best Local Similarity 99.4%; Score 1349.5; DB 1; Length 895; Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY	2. SHMIGYECOPILFNLVLEATPGVIVAGHONNNQPSPAILSLNTIGEROLVWVWAK 61
Db	638 SH-IEGYECOPILFNLVLEATPGVIVAGHONNNQPSPAILSLNTIGEROLVWVWAK 696
QY	62 ALGRGRNHYDDQMAVQTSWMMGLMVPANGWRSFINVNSRMLYAPDLYFNETRHKSRM 121
Db	697 ALPSFRNLYDDQMAVQTSWMMGLMVPANGWRSFINVNSRMLYAPDLYFNETRHKSRM 756
QY	122 YSQCYTMRHISQEFQWNLQITPQEFQCMKALLFLS1IPVQGLKNOKFDELMMYKELDR 181
Db	757 YSQCYTMRHISQEFQWNLQITPQEFQCMKALLFLS1IPVQGLKNOKFDELMMYKELDR 816
QY	182 IACKERKNPKPSCSRQFQIQLKLPSVQIARELHOFTRDILKSHMSVDFPENMAEIS 241
Db	817 IACKERKNPKPSCSRQFQIQLKLPSVQIARELHOFTRDILKSHMSVDFPENMAEIS 876
QY	242 VQPKLISGKPVTFYHTQ 260
Db	877 VQPKLISGKPVTFYHTQ 895
CC	RESULT 4
ANDR_PAPHA	STANDARD; PRT; 895 AA.
ID	ANDR_PAPHA
AC	097960; 30-MAY-2000 (Rel. 39, Created)
DT	30-MAY-2000 (Rel. 39, Last sequence update)
DT	30-MAY-2000 (Rel. 39, Last annotation update)
DR	Androgen receptor (Dihydrotestosterone receptor).
GN	AR OR NR3C4.
OS	Papio hamadryas (Hamadryas baboon).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Cercopithecinae; Papio.
OX	NCBI_TaxID=9557;
RN	[1]
RP	SEQUENCE FROM N.A.
RX	MEDLINE=9840153; PubMed=9732460; Choong C.S., Kemppainen J.A., Wilson B.M.; "Evolution of the primate androgen receptor: a structural basis for disease". J. Mol. Evol. 47:334-342 (1998).
CC	THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
CC	-!- SUBCELLULAR LOCATION: Nuclear.
CC	-!- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
CC	-!- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3 subfamily.
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <a href="http://www.ibb-sib.ch/announce/">http://www.ibb-sib.ch/announce/</a> or send an email to <a href="mailto:license@ibb-sib.ch">license@ibb-sib.ch</a> ).
CC	EMBL: U94176; AAC73047.1; -.
DR	HSSP; P06536; IGDC.
DR	TRANSFAC; T04652; -.
DR	InterPro; IPR001103; Andrgn_receptor.
DR	InterPro; IPR000536; Hormone_rec_lig.
DR	InterPro; IPR001628; Znf_C4steroid.
DR	Pfam; PF02166; Androgen_Recep; 1.
DR	PRINTS; PR00047; STRO4DFINGER.
DR	PRODOM; PD00035; Znf_C4steroid; 1.
DR	SMART; SM00430; HOM1; 1.
DR	SMART; SM00399; Znf_C4; 1.
DR	PROSITE; PS00031; NUCLEAR_RECEPATOR; 1.
KW	Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger; Steroid-binding.
FT	DOMAIN 1 533 MODULATING (BY SIMILARITY).
FT	DNA_BIND 535 600 NUCLEAR RECEPTOR-TYPE.
FT	ZN_FINGER 535 555 C4-TYPE.
FT	ZN_FINGER 571 595 C4-TYPE.
FT	DOMAIN 666 895 LIGAND-BINDING.
FT	DOMAIN 55 63 POLY-GLN.
FT	DOMAIN 69 74 POLY-GLN.
FT	DOMAIN 178 182 POLY-PRO.
FT	DOMAIN 357 366 POLY-ALA.
FT	DOMAIN 381 387 POLY-GLY.
SQ	SEQUENCE 895 AA: 96478 MW: 9020CDC67F1185D CRC64: Query Match Best Local Similarity 99.4%; Score 1349.5; DB 1; Length 895; Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIGEYECOPIFLNLTEIRPVGWCAHGHDNNQPDSPAAFLISLNLGEROLHVKWAK 61  
 DB 638 SH-IEGYECOPIFLNLTEIRPVGWCAHGHDNNQPDSPAAFLISLNLGEROLHVKWAK 696  
 QY 62 ALPGFENLHVDDOMAVIQSUNGMLNFMAGNRSFTNVNSRMLYFADPLVNEYRMKRM 121  
 DB 697 ALPGFENLHVDDOMAVIQSUNGMLNFMAGNRSFTNVNSRMLYFADPLVNEYRMKRM 756  
 CC -!- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3  
 CC subfamily.  
 CC  
 QY 122 YSQCVMRHLISOBGMLQITPQFLCKMALLPSIPDGKJNQKPFDELRYMVKELDR 181  
 DB 757 YSQCVMRHLISOBGMLQITPQFLCKMALLPSIPDGKJNQKPFDELRYMVKELDR 816  
 QY 182 IACKRKNTSCSRPFLKLDSPQIARLHQFTDLIKSHMVSDFPENNMAIS 241  
 DB 817 IACKRKNTSCSRPFLKLDSPQIARLHQFTDLIKSHMVSDFPENNMAIS 876  
 QY 242 VQVKLISGKVKPFIYFQ 260  
 DB 877 VQVKLISGKVKPFIYFQ 895

RESULT 5

ANDR MOUSE ID ANDR MOUSE STANDARD; PRT; 899 AA.

AC F19051; DT 01-NOV-1990 (Rel. 16 Last sequence update)  
 DT 16-OCT-2001 (Rel. 40 Last annotation update)  
 DE Androgen receptor (Dihydrotestosterone receptor).  
 GN AR OR NR3C4.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metzoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Murida; Murinae; Mus.  
 NX NCBI-TaxID:10900;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BALB/c;  
 RX MEDLINE=90386642; PubMed=2403358;  
 RA He W.W., Fischer L.M., Sun S., Bilhartz D.L., Zhu X., Young C.Y.P.,  
 RA Kelley D.B., Tindall D.J.;  
 RT "Molecular cloning of androgen receptors from divergent species with  
 RT a polymerase chain reaction technique: complete cDNA sequence of the  
 mouse androgen receptor and isolation of androgen receptor cDNA  
 RT probes from dog, guinea pig and clawed frog",  
 RL Biochem. Biophys. Res. Commun. 171:697-704(1990).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=91133433; PubMed=2178222;  
 RA Gaspar M.I., Mao T., Tosi M.;  
 RT "Structure and size distribution of the androgen receptor mRNA in  
 RT wild-type and Tfm/Y mutant mice.",  
 RL Mol. Endocrinol. 4:1600-1610(1990).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=91354244; PubMed=1883336;  
 RA Faber P.W., King A., van Rooij H.C.J., Brinkmann A.O., de Both N.J.,  
 RA Trapman J.;  
 RT "The mouse androgen receptor. Functional analysis of the protein and  
 RT characterization of the gene.",  
 RL Biochem. J. 278:269-278(1991).  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=92017874; PubMed=1681426;  
 RA Charest N.J., Zhou Z., Lubahn D.B., Olsen K.L., Wilson E.M.,  
 RA French F.S.;  
 RT "A frameshift mutation destabilizes androgen receptor messenger RNA  
 RT in the Tfm mouse.",  
 Mol. Endocrinol. 5:573-581(1991).  
 -!- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN  
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR  
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.  
 CC -!- SUBCELLULAR LOCATION: Nuclear.  
 CC -!- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,

CC -!- A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.  
 CC -!- MISCELLANOUS: IN THE ABSENCE OF LIGAND, STEROID HORMONE RECEPTORS  
 CC ARE THOUGHT TO BE WEAKLY ASSOCIATED WITH NUCLEAR COMPONENTS;  
 CC HORMONE-BINDING GREATLY INCREASES RECEPTOR AFFINITY. THE  
 CC HORMONE-RECEPTOR COMPLEX APPEARS TO RECOGNIZE DISCRETE DNA  
 CC SEQUENCES UPSTREAM OF TRANSCRIPTIONAL START SITES.  
 CC  
 DR EMBL: SG6585; AAB9916.1; -.  
 DR EMBL: X53779; CA037795.1; -.  
 DR EMBL: M17890; AA037234.1; -.  
 DR EMBL: X19592; CA042160.1; -.  
 DR PIR: A35095; A35835.  
 DR HSSP: P06536; IGDC.  
 DR  
 DR TRANSFAC: T00041; -.  
 DR MGD: MGI:88004; AR.  
 DR InterPro: IPR00103; Andrgn receptor.  
 DR InterPro: IPR00056; Hormone rec lig.  
 DR InterPro: IPR001628; Znf\_C4teroid.  
 DR Pfam: PF02166; Androgen receptor; 1.  
 DR Pfam: PF00104; hormone\_Rec; 1.  
 DR Pfam: PF00105; zf-C4; 1.  
 DR PRINTS: PR00047; STROIDFINGER.  
 DR PRODOM: PD00035; Znf\_C4teroid; 1.  
 DR SMART: SM00430; R011; 1.  
 DR SMART; SM0339; Znf\_C4; 1.  
 DR PROSITE: PS00031; NUCLEAR RECEPTOR; 1.  
 DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;  
 KW Zinc-finger; Steroid-binding.  
 FT DOMAIN 1 537 MODULATING (BY SIMILARITY).  
 FT DNA\_BIND 539 604 NUCLEAR RECEPTOR-TYPE.  
 FT ZN\_FING 539 559 C4-TYPE.  
 FT ZN\_FING 575 599 C4-TYPE.  
 FT DOMAIN 670 899 LIGAND-BINDING.  
 FT DOMAIN 63 67 POLY-ARG.  
 FT DOMAIN 174 193 POLY-GIN.  
 FT DOMAIN 367 373 POLY-PRO.  
 FT DOMAIN 391 397 POLY-ALA.  
 FT DOMAIN 441 447 POLY-GLY.  
 SQ SEQUENCE 899 AA; 98193 MR; FD9EBCT077A568 CRC64;  
 Query Match 98.4%; Score 1349.5; DB 1; Length 899;  
 Best Local Similarity 99.6%; Pred. No. 3.2e-118;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIGEYECOPIFLNLTEIRPVGWCAHGHDNNQPDSPAAFLISLNLGEROLHVKWAK 61  
 DB 642 SH-IEGYECOPIFLNLTEIRPVGWCAHGHDNNQPDSPAAFLISLNLGEROLHVKWAK 700  
 QY 62 ALPGFENLHVDDOMAVIQSUNGMLNFMAGNRSFTNVNSRMLYFADPLVNEYRMKRM 121  
 DB 701 ALPGFENLHVDDOMAVIQSUNGMLNFMAGNRSFTNVNSRMLYFADPLVNEYRMKRM 750  
 QY 122 YSQCVMRHLISOBGMLQITPQFLCKMALLPSIPDGKJNQKPFDELRYMVKELDR 181  
 DB 761 YSQCVMRHLISOBGMLQITPQFLCKMALLPSIPDGKJNQKPFDELRYMVKELDR 820  
 QY 182 IACKRKNTSCSRPFLKLDSPQIARLHQFTDLIKSHMVSDFPENNMAIS 241  
 DB 821 IACKRKNTSCSRPFLKLDSPQIARLHQFTDLIKSHMVSDFPENNMAIS 880  
 QY 242 VQVKLISGKVKPFIYFQ 260  
 DB 881 VQVKLISGKVKPFIYFQ 899



CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.  
 CC -I- SUBCELLULAR LOCATION: Nuclear.  
 CC -I- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,  
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.  
 CC -I- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3  
 CC subfamily.  
 CC  
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 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
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 CC or send an email to license@isb-sib.ch).  
 CC  
 DR InterPro; IPR000536; Znf\_C4steroid.  
 DR HSSP; P06536; IgDC.  
 DR EMBL; AP19950; AAF18084.1; --.  
 DR InterPro; IPR00103; Andrgn\_receptor.  
 DR PRODOM; PD000035; Znf\_C4steroid.  
 DR SMART; SM00399; Znf\_C4\_1.  
 DR PROST1; PS00031; NUCLEAR RECEPTOR; 1.  
 DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;  
 KW Zinc-finger; Steroid-binding.  
 FT DOMAIN 1 545 MODULATING (BY SIMILARITY).  
 FT DNA\_BIND 547 NUCLEAR RECEPTOR-TYPE.  
 FT ZN\_FING 547 C4-TYPE.  
 FT ZN\_FING 583 607 LIGAND-BINDING.  
 FT DOMAIN 55 64 POLY-GLN.  
 FT DOMAIN 70 76 POLY-GLN.  
 FT DOMAIN 131 134 POLY-GLN.  
 FT DOMAIN 180 202 POLY-GLN.  
 FT DOMAIN 329 332 POLY-SER.  
 FT DOMAIN 375 384 POLY-PRO.  
 FT DOMAIN 399 405 POLY-ALA.  
 SQ SEQUENCE 907 AA; 98726 MW; C8619F78DD2338AF CRC64;  
 Query Match 98.4%; Score 1349.5; DB 1; Length 907;  
 Best Local Similarity 99.6%; Pred. No. 3.2e-118; Mismatches 0; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 Qy 2 SHMIEGEGCOPFLAVNLAVLRLAIPGIVWCAHDDNNPDSFAALLSSLINEALGERQJAHVVKAK 61  
 Db 650 SH-IEGYSCQPIFLAVNLRLAIPGIVWCAHDDNNPDSFAALLSSLINEALGERQJAHVVKAK 708  
 Qy 62 ALPGFPRNLHVDOMAVIQYSWMLGLAVFANGWRSPTNVSNSRMLYFAPDLVENVYRNMHKSRM 121  
 Db 709 ALPGFPRNLHVDOMAVIQYSWMLGLAVFANGWRSPTNVSNSRMLYFAPDLVENVYRNMHKSRM 768  
 Qy 122 YSOQVVRMLHSQFGWLOITPQSPFLCKMLKLLSIIPTVGLKQKFDELRYNVIKELDR 181  
 Db 769 YSOQVVRMLHSQFGWLOITPQSPFLCKMLKLLSIIPTVGLKQKFDELRYNVIKELDR 828  
 Qy 182 IACKRKQPTCSRRYQVYHTQ 241  
 Db 829 IACKRKQPTCSRRYQVYHTQ 888  
 Qy 242 VQVKILSKRKPVYHTQ 260  
 Db 889 VQVKILSKRKPVYHTQ 907

DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DB Androgen receptor (Dihydrotestosterone receptor).  
 GN AR OR NR3C4.  
 OS Pan troglodytes (Chimpanzee).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  
 OC NCBI\_TAXID:9598;  
 RN [1]  
 RP SOURCE FROM N.A.  
 RX MEDLINE:9840453; PubMed=9732460;  
 RA Choong C.S., Kempainen J.A., Wilson B.M.;  
 RT "Evolution of the primate androgen receptor: a structural basis for  
 RT disease.",  
 RL J. Mol. Evol. 47:334-342(1998).  
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR  
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.  
 CC -I- SUBCELLULAR LOCATION: Nuclear.  
 CC -I- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,  
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.  
 CC -I- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3  
 CC subfamily.  
 CC  
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration  
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 CC or send an email to license@isb-sib.ch).  
 CC  
 DR InterPro; IPR00103; Andrgn\_receptor.  
 DR PRODOM; PD000035; Znf\_C4steroid.  
 DR SMART; SM00399; Znf\_C4\_1.  
 DR InterPro; IPR001628; Znf\_C4steroid.  
 DR HSSP; P06536; IgDC.  
 DR TRANSFAC; T0453; --.  
 DR InterPro; IPR00103; Andrgn\_receptor.  
 DR PROST1; PS00031; NUCLEAR RECEPTOR; 1.  
 DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;  
 KW Zinc-finger; Steroid-binding.  
 FT DOMAIN 1 549 MODULATING (BY SIMILARITY).  
 FT DNA\_BIND 551 616 NUCLEAR RECEPTOR-TYPE.  
 FT ZN\_FING 551 571 C4-TYPE.  
 FT ZN\_FING 587 611 LIGAND-BINDING.  
 FT DOMAIN 682 911 POLY-GLN.  
 FT DOMAIN 684 78 POLY-GLN.  
 FT DOMAIN 192 196 POLY-GLN.  
 FT DOMAIN 371 380 POLY-PRO.  
 FT DOMAIN 395 401 POLY-ALA.  
 FT DOMAIN 448 464 POLY-GLY.  
 SQ SEQUENCE 911 AA; 98402 MW; 601B9B4E697DAA4 CRC64;  
 Query Match 98.4%; Score 1349.5; DB 1; Length 911;  
 Best Local Similarity 99.6%; Pred. No. 3.2e-118; Mismatches 0; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 Qy 2 SHMIEGEGCOPFLAVNLAVLRLAIPGIVWCAHDDNNPDSFAALLSSLINEALGERQJAHVVKAK 61  
 Db 654 SH-IEGYSCQPIFLAVNLRLAIPGIVWCAHDDNNPDSFAALLSSLINEALGERQJAHVVKAK 712  
 Qy 62 ALPGFPRNLHVDOMAVIQYSWMLGLAVFANGWRSPTNVSNSRMLYFAPDLVENVYRNMHKSRM 121  
 Db 713 ALPGFPRNLHVDOMAVIQYSWMLGLAVFANGWRSPTNVSNSRMLYFAPDLVENVYRNMHKSRM 772

RESULT 8  
 ANDR\_PANTR STANDARD; PRT; 911 AA.  
 ID ANDR\_PANTR AC. 097775;

Qy 122 YSGCVRURHLSBRGWTQITPQBLCKMALLFSLIPDGLKQKEFDELMNYKELDR 181  
 Rx 773 YSGCVRURHLSBRGWTQITPQBLCKMALLFSLIPDGLKQKEFDELMNYKELDR 832

Qy 182 IIACKRKNPTCSRRFVQLTQKLDSDVPIARLHQFTFDLILKSHMVSVDPEMMARIS 241  
 Rx 833 IIACKRKNPTCSRRFVQLTQKLDSDVPIARLHQFTFDLILKSHMVSVDPEMMARIS 892

Qy 242 VQVPKILSGKVPVYFHQ 260  
 Rx 893 VQVPKILSGKVPVYFHQ 911

RESULT 9  
 ANDR\_HUMAN STANDARD; PRT; 919 AA.  
 AC P10275;  
 DT 01-MAR-1989 (Rel. 10. Created)  
 DT 01-APR-1990 (Rel. 14. Last sequence update)  
 DT 15-SEP-2003 (Rel. 42. Last annotation update)  
 DE Androgen receptor (Dihydrotestosterone receptor).  
 GN AR OR NR3CA OR DHTR.  
 OS Homo sapiens (Human).  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 RN [1]—  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=89112208; PubMed=3216866;  
 RA Lubahn D.B., Joseph D.R., Sar M., Tan J., Higgs H.N., Larson R.E.,  
 RA French P.S., Wilson E.M., Simental J.A., Higgs H.N., Migeon C.J.,  
 RT "The human androgen receptor: complementary deoxyribonucleic acid  
 cloning, sequence analysis and gene expression in prostate.",  
 RL Mol. Endocrinol. 2:1265-1275(1988).  
 RN [2]—  
 RP SEQUENCE FROM N.A. AND VARIANT CA15 MET-866.  
 RX MEDLINE=90083302; PubMed=2594783;  
 RA Lubahn D.B., Brown T.R., Simental J.A., Higgs H.N., Migeon C.J.,  
 RA Wilson E.M., French P.S.,  
 RT "Sequence of the intron/exon junctions of the coding region of the  
 human androgen receptor gene and identification of a point mutation  
 in a family with complete androgen insensitivity";  
 RL Proc. Natl. Acad. Sci. U.S.A. 86:9534-9538(1989).  
 RN [3]—  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=90258935; PubMed=2342476;  
 RA Govindan M.V.;  
 RT "Specific region in hormone binding domain is essential for hormone  
 binding and trans-activation by human androgen receptor.",  
 RL Mol. Endocrinol. 4:417-427(1990).  
 RC TISSUE=prostate;  
 RP MEDLINE=8917168; PubMed=3174628;  
 RA Chang C., Kokontis J., Liao S.;  
 RT "Structural analysis of complementary DNA and amino acid sequences of  
 human and rat androgen receptors.",  
 RL Proc. Natl. Acad. Sci. U.S.A. 85:7211-7215(1988).  
 RN [5]—  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=prostate;  
 RX MEDLINE=89098909; PubMed=2911578;  
 RA Tilley W.D., Marcelli M., Wilson J.D., McPhaul M.J.;  
 RT "Characterization and expression of a cDNA encoding the human androgen  
 receptor.",  
 RP Proc. Natl. Acad. Sci. U.S.A. 86:3327-3331(1989).  
 RN [6]—  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=prostate;  
 RX MEDLINE=9115543; PubMed=2293020;  
 RA Marcelli M., Tilley W.D., Wilson C.M., Griffin J.B., Wilson J.D.,  
 RA McPhaul M.J.;  
 RA

RT "Definition of the human androgen receptor gene structure permits the identification of mutations that cause androgen resistance: premature termination of the receptor protein at amino acid residue 588 causes complete androgen resistance";  
 Mol. Endocrinol. 4:1105-1116(1990).  
 RN [7]—  
 RP SEQUENCE OF 189-919 FROM N.A.  
 RX MEDLINE=88178111; PubMed=3333726;  
 RA Chang C., Kokontis J., Liao S.;  
 RT "Molecular cloning of human and rat complementary DNA encoding androgen receptors";  
 Science 240:324-326(1988).  
 RN [8]—  
 RP SEQUENCE OF 468-919 FROM N.A.  
 RX MEDLINE=8824007; PubMed=3377788;  
 RA Trapman J., Klaasen P., Kuiper G.G.J.M., van der Korput J.A.G.M.,  
 RA Tragman J., Klaasen P., Kuiper G.G.J.M., van der Korput J.A.G.M.,  
 RA Faber P.W., van Rooij H.C.J., Geurts van Kessel A., Voorhorst M.M.,  
 RA Mulder E., Brinkmann A.O.;  
 RT "Cloning, structure and expression of a cDNA encoding the human  
 androgen receptor.",  
 RL Biochem. Biophys. Res. Commun. 153:241-248(1988).  
 RN [9]—  
 RP INTERACTION WITH RAN.  
 RX MEDLINE=99329028; PubMed=10100640;  
 RA Hsiao P.-W., Lin D.-L., Nakao R., Chang C.;  
 RT "The linkage of Kennedy's neuron disease to AR424, the first  
 identified androgen receptor polyglutamine region-associated  
 coactivator";  
 RL J. Biol. Chem. 274:20229-20234(1999).  
 RN [10]—  
 RP POLYMORPHISM OF POLY-GUN REGION.  
 RX MEDLINE=92220629; PubMed=1561105;  
 RA Sleddens H.F.B.M., Oostera B.A., Brinkmann A.O., Trapman J.;  
 RT "Trinucleotide repeat polymorphism in the androgen receptor gene  
 (AR).";  
 RL Nucleic Acids Res. 20:1427-1427(1992).  
 RN [11]—  
 RP POLYMORPHISM OF POLY-GUN REGION.  
 RC TISSUE=Blood;  
 RA Lu J., Daniels M.;  
 RL Submitted (FEB-1995) to the EMBL/GenBank/DBJ databases.  
 RN [12]—  
 RP POLYMORPHISM OF POLY-GUN REGION.  
 RX MEDLINE=97250535; PubMed=9096391;  
 RA Giovannucci E., Stampfer M.J., Kristoffersson K., Brown M., Brufsky A.,  
 RA Talcott J., Hennekens C.H., Kantoff P.W.;  
 RT "The CAG repeat within the androgen receptor gene and its  
 relationship to prostate cancer";  
 RL Proc. Natl. Acad. Sci. U.S.A. 94:3320-3323(1997).  
 RN [13]—  
 RP ERRATUM.  
 RA Giovannucci E., Stampfer M.J., Kristoffersson K., Brown M., Dahl D.,  
 RA Brufsky A., Talcott J., Hennekens C.H., Kantoff P.W.;  
 RL Proc. Natl. Acad. Sci. U.S.A. 94:8272-8272(1997).  
 RN [14]—  
 RP REVIEW ON VARIANTS.  
 RX MEDLINE=93092459; PubMed=1458719;  
 RA Pisnay L., Trifiro M.A., Kaufman M., Beitel L.K., Mhatre A.,  
 RA Kazemi-Birjani P., Sabbaghian N., Lumbroso R., Alvarado C.,  
 RA Vasiliou M., Gottlieb B.;  
 RT "Androgen resistance due to mutation of the androgen receptor.",  
 RL Clin. Invest. Med. 15:456-472(1992).  
 RN [15]—  
 RP REVIEW ON VARIANTS AT.  
 RX MEDLINE=9333360; PubMed=8339746;  
 RA Brown T.R., Scheer P.A., Chang Y.-T., Migeon C.J., Ghirri P.,  
 RA Murono K., Zhou Z.;  
 RT "Molecular genetics of human androgen insensitivity";  
 RL Bur. J. Pediatr. 152 Suppl. 2:S62-S69(1993).  
 RN [16]—  
 RP REVIEW ON VARIANTS.  
 RX MEDLINE=9405970; PubMed=8240973;  
 RA Sultan C., Lumbroso S., Poujol N., Belon C., Boudon C.,

	Matches	258;	Conservative	0;	Mismatches	0;	Indels	1;	Gap	1;
RA	Lobaccaro J.-M.;									
RT	"Mutations of androgen receptor gene in androgen insensitivity syndromes";	2	SHMTEGYSQPIPLVNLLEIPEGVAGCAGHDNNMOPSPALLSSNLNEGEROLVHVKWAK	61						
RT	Syndromes";									
RL	J. Steroid Biochem. Mol. Biol.	46:519-530(1993).								
RN	[17]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=95023059; PubMed=937057;									
RA	Patterson M.N., Hughes I.A., Gottlieb B., Pinaky L.;									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	22:3560-3562(1994).								
RN	[18]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=95352489; PubMed=7626493;									
RA	Brinkmann A.O., Jenster G., Riss-Stalpers C., van der Korput J.A.G.M.,									
RA	Bruggenwirth H.T., Boehmer A.L.M., Trapman J.;									
RT	"Androgen receptor mutations";									
RL	J. Steroid Biochem. Mol. Biol.	53:443-448(1995).								
RN	[19]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=97169305; PubMed=9016528;									
RA	Gottlieb B., Trifiro M.A., Lumbruso R., Vasiliou D.M., Pinaky L.;									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	25:158-162(1997).								
RN	[20]									
RP	VARIANT LINCAP ALA-877.									
RX	MEDLINE=91083633; PubMed=2260266;									
RA	Veldecholte J., Riss-Stalpers C., Kuiper G.G.J.M., Jenster G.,									
RA	Berrevoets C.A., Claassen E., van Rooij H.C.J., Trapman J.,									
RT	"A mutation in the ligand binding domain of the androgen receptor of human LNCaP cells affects steroid binding characteristics and response to anti-androgens";									
RT	Biochem. Biophys. Res. Commun.	173:534-540(1990).								
RL	[21]									
RP	VARIANTS CARS CYS-774; GLN-831 AND MET-866.									
RX	MEDLINE=91186983; PubMed=2082179;									
RA	Brown T.R., Lubahn D.B., Wilson E.M., French P.S., Migeon C.J., Corfen J.L.,									
RT	"Functional characterization of naturally occurring mutant androgen receptors from subjects with complete androgen insensitivity";									
RL	Mol. Endocrinol.	4:1759-1772(1990).								
RN	[22]									
RP	VARIANT CYS-774.									
RX	MEDLINE=91310758; PubMed=1856263;									
RA	Marcelli M., Tilley W.D., Zoppi S., Griffin J.E., Wilson J.D., McPhaul M.J.;									
RT	"Androgen resistance associated with a mutation of the androgen receptor at amino acid 772 (Arg-->Cys) results from a combination of decreased messenger ribonucleic acid levels and impairment of receptor function";									
RT	J. Clin. Endocrinol. Metab.	73:318-325(1991).								
RL	[23]									
RP	VARIANT CARS PRO-617.									
RX	MEDLINE=91154385; PubMed=1994911;									
RA	Marcelli M., Zoppi S., Grifin J.E., Wilson J.D., McPhaul M.J.;									
RT	"A mutation in the DNA-binding domain of the androgen receptor gene causes complete testicular feminization in a patient with receptor-positive androgen resistance";									
RT	J. Clin. Invest.	87:1123-1126(1991).								
RL	[24]									
RP	VARIANT PAPS CYS-763.									
RX	MEDLINE=91185626; PubMed=2010552;									
RA	McPhaul M.J., Marcelli M., Tilley W.D., Griffin J.E., Isidro-Gutierrez R.F., Wilson J.D.;									
RT	"Molecular basis of androgen resistance in a family with a qualitative abnormality of the androgen receptor and responsive to high-dose androgen therapy";									
RT	J. Clin. Invest.	87:1413-1421(1991).								
RL	[25]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=95023059; PubMed=937057;									
RA	Patterson M.N., Hughes I.A., Gottlieb B., Pinaky L.;									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	22:3560-3562(1994).								
RN	[18]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=95352489; PubMed=7626493;									
RA	Brinkmann A.O., Jenster G., Riss-Stalpers C., van der Korput J.A.G.M.,									
RA	Bruggenwirth H.T., Boehmer A.L.M., Trapman J.;									
RT	"Androgen receptor mutations";									
RL	J. Steroid Biochem. Mol. Biol.	53:443-448(1995).								
RN	[19]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=97169305; PubMed=9016528;									
RA	Gottlieb B., Trifiro M.A., Lumbruso R., Vasiliou D.M., Pinaky L.;									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	25:158-162(1997).								
RN	[20]									
RP	VARIANT LINCAP ALA-877.									
RX	MEDLINE=91083633; PubMed=2260266;									
RA	Veldecholte J., Riss-Stalpers C., Kuiper G.G.J.M., Jenster G.,									
RA	Berrevoets C.A., Claassen E., van Rooij H.C.J., Trapman J.,									
RT	"A mutation in the ligand binding domain of the androgen receptor of human LNCaP cells affects steroid binding characteristics and response to anti-androgens";									
RT	Biochem. Biophys. Res. Commun.	173:534-540(1990).								
RL	[21]									
RP	VARIANTS CARS CYS-774; GLN-831 AND MET-866.									
RX	MEDLINE=91186983; PubMed=2082179;									
RA	Brown T.R., Lubahn D.B., Wilson E.M., French P.S., Migeon C.J., Corfen J.L.,									
RT	"Functional characterization of naturally occurring mutant androgen receptors from subjects with complete androgen insensitivity";									
RL	Mol. Endocrinol.	4:1759-1772(1990).								
RN	[22]									
RP	VARIANT CYS-774 /									
RX	MEDLINE=91310758; PubMed=1856263;									
RA	Marcelli M., Tilley W.D., Zoppi S., Griffin J.E., Wilson J.D., McPhaul M.J.;									
RT	"Androgen resistance associated with a mutation of the androgen receptor at amino acid 772 (Arg-->Cys) results from a combination of decreased messenger ribonucleic acid levels and impairment of receptor function";									
RT	J. Clin. Endocrinol. Metab.	73:318-325(1991).								
RL	[23]									
RP	VARIANT CARS PRO-617.									
RX	MEDLINE=91154385; PubMed=1994911;									
RA	Marcelli M., Zoppi S., Grifin J.E., Wilson J.D., McPhaul M.J.;									
RT	"A mutation in the DNA-binding domain of the androgen receptor gene causes complete testicular feminization in a patient with receptor-positive androgen resistance";									
RT	J. Clin. Invest.	87:1123-1126(1991).								
RL	[24]									
RP	VARIANT PAPS CYS-763.									
RX	MEDLINE=91185626; PubMed=2010552;									
RA	McPhaul M.J., Marcelli M., Tilley W.D., Griffin J.E., Isidro-Gutierrez R.F., Wilson J.D.;									
RT	"Molecular basis of androgen resistance in a family with a qualitative abnormality of the androgen receptor and responsive to high-dose androgen therapy";									
RT	J. Clin. Invest.	87:1413-1421(1991).								
RL	[25]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=95352489; PubMed=7626493;									
RA	Brinkmann A.O., Jenster G., Riss-Stalpers C., van der Korput J.A.G.M.,									
RA	Bruggenwirth H.T., Boehmer A.L.M., Trapman J.;									
RT	"Androgen receptor mutations";									
RL	J. Steroid Biochem. Mol. Biol.	53:443-448(1995).								
RN	[19]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=97169305; PubMed=9016528;									
RA	Gottlieb B., Trifiro M.A., Lumbruso R., Vasiliou D.M., Pinaky L.;									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	25:158-162(1997).								
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RP	VARIANT LINCAP ALA-877.									
RX	MEDLINE=91083633; PubMed=2260266;									
RA	Veldecholte J., Riss-Stalpers C., Kuiper G.G.J.M., Jenster G.,									
RA	Berrevoets C.A., Claassen E., van Rooij H.C.J., Trapman J.,									
RT	"A mutation in the ligand binding domain of the androgen receptor of human LNCaP cells affects steroid binding characteristics and response to anti-androgens";									
RT	Biochem. Biophys. Res. Commun.	173:534-540(1990).								
RL	[21]									
RP	VARIANT CARS CYS-774; GLN-831 AND MET-866.									
RX	MEDLINE=91186983; PubMed=2082179;									
RA	Brown T.R., Lubahn D.B., Wilson E.M., French P.S., Migeon C.J., Corfen J.L.,									
RT	"Functional characterization of naturally occurring mutant androgen receptors from subjects with complete androgen insensitivity";									
RL	Mol. Endocrinol.	4:1759-1772(1990).								
RN	[22]									
RP	VARIANT CYS-774 /									
RX	MEDLINE=91310758; PubMed=1856263;									
RA	Marcelli M., Tilley W.D., Griffin J.E., Wilson J.D., McPhaul M.J.;									
RT	"Androgen resistance associated with a mutation of the androgen receptor at amino acid 772 (Arg-->Cys) results from a combination of decreased messenger ribonucleic acid levels and impairment of receptor function";									
RT	J. Clin. Endocrinol. Metab.	73:318-325(1991).								
RL	[23]									
RP	VARIANT CATS PRO-617.									
RX	MEDLINE=91154385; PubMed=1994911;									
RA	Marcelli M., Zoppi S., Grifin J.E., Wilson J.D., McPhaul M.J.;									
RT	"A mutation in the DNA-binding domain of the androgen receptor gene causes complete testicular feminization in a patient with receptor-positive androgen resistance";									
RT	J. Clin. Invest.	87:1123-1126(1991).								
RL	[24]									
RP	VARIANT PAPS CYS-763.									
RX	MEDLINE=91185626; PubMed=2010552;									
RA	McPhaul M.J., Marcelli M., Tilley W.D., Griffin J.E.,									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	22:3560-3562(1994).								
RN	[25]									
RP	REVIEW ON VARIANTS.									
RX	MEDLINE=95352489; PubMed=7626493;									
RA	Gottlieb B., Trifiro M.A., Lumbruso R., Vasiliou D.M., Pinaky L.;									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	25:158-162(1997).								
RN	[26]									
RP	VARIANT PAPS CYS-763.									
RX	MEDLINE=91185626; PubMed=2010552;									
RA	McPhaul M.J., Marcelli M., Tilley W.D., Griffin J.E.,									
RT	"The androgen receptor gene mutations database";									
RL	Nucleic Acids Res.	22:3560-3562(1994).	</td							

DR PRINTS: PR00047: STROIDFINGER.  
 DR Prodome: PD000035; Znf\_C4steroid; 1.  
 RN [4]  
 DR SMART: SM00330; Holi; 1.  
 RX MEDLINE=9628128; PubMed=9620806;  
 DR PROSITE: PS00031; NUCLEAR\_RECECTOR; 1.  
 DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;  
 KW Zinc-Finger; Steroid-binding.  
 FT DOMAIN 1 565 MODULATING, PRO-RICH.  
 FT DNA BIND 568 633 NUCLEAR RECEPTOR-TYPE.  
 FT ZN FING 568 588 C4-TYPE.  
 FT ZN FING 604 628 C4-TYPE.  
 FT DOMAIN 678 930 STEROID-BINDING.  
 FT DOMAIN 184 188 NUCLEAR LOCALIZATION SIGNAL (POTENTIAL).  
 SQ SEQUENCE 930 AA: 98666 MN; 644FF4C13BF2F883 CRC64;

Query Match 55.9%; Score 766; DB 1; Length 930;  
 Best Local Similarity 55.5%; Pred. No. 1.2e-63; Mismatches 53; Indels 0; Gaps 0;  
 Matches 137; Conservative 57; MisMatched 53; Insert 0; Gap 0;

Qy 12 PIFLNLVIAEPEPGVAGHNNNQDPSPAUSSNLNEGLQRQVHVVAKALPGFRHLV 71  
 DB 682 PPLINLNSIBPQVYAGHDNTKPTDSSILLNSLNGRQLSWSVWMSKPGFRHL 741

Qy 72 DDOQAVQYSWGMVAFANGWTSFTNVNSRMLYFAPDLYFENSTYRMHGSRMSQCVRMHL 131  
 DB 742 DQITLQIYQSWMISLNVFGIIGWASQKHSQGQMLFAPPDLINFORMKSSFSIQLTWQI 801

Qy 132 SRRPGWQITPREFLCAUFLSISIPVGDGKNOKEFDELRANVYKEDRIFACKKPT 191  
 DB 802 PDBFVKLQVSOERBLCMVWLLNLTIPLEGKUSOSOFBEMRSVYIRELIKAGLROKGV 861

Qy 192 SSSRRYQVLTQKLDSDVQPIARELHQFTDILKSHMWSVDFPMMARISVQPKLISGK 251  
 DB 862 SSSRRYQVLTQKLDSDVQPIARELHQFTDILKSHMWSVDFPMMARISVQPKLISGK 921

Qy 252 VPIYFH 258

DB 922 VPIYFH 928

RESULT 11

PRGR\_HUMAN ID \_BGR\_HUMAN STANDARD: PRT: 933 AA.

AC P06401; Q8IPF7;  
 DT 01-JAN-1988 (Rel. 06, Created)  
 DT 16-SEP-2001 (Rel. 40, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)

DB Progesterone receptor (PR).  
 GN PR or NR3C1.  
 OS Homo sapiens (Human).  
 OC Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TAXID=9606;  
 RN [1] SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.

RP MEDLINE=9228361; PubMed=2328727;  
 RA Kastner P.; Krust A.; Turcotte B.; Stroop U.; Tora L.; Gronemeyer H.;  
 RA Champion P.; Prochorov D.; Pichot M.; Pichot C.; Pichot M.;  
 RT "Two distinct estrogen-regulated promoters generate transcripts  
 RT encoding the two functionally different human progesterone receptor  
 RT forms A and B";  
 RL EMBO J. 9:1603-1614(1990).  
 RP [2] SEQUENCE FROM N.A.

RP MEDLINE=8718455; PubMed=3551956;  
 RA Misrahi M.; Aulio M.; Aulio L.; Loosfelt H.; Meriel C.;  
 RA Fridlansky P.; Guiochon-Mantel A.; Galibert F.; Miglom E.;  
 RT "Complete amino acid sequence of the human progesterone receptor  
 RT deduced from cloned DNA";  
 RL Biochem. Biophys. Res. Commun. 143:740-748(1987).  
 RN [3] SEQUENCE FROM N.A.  
 RA Kleback D.G.; Agoulnik I.U.; Tong X.-W.;

RL Submitted (Jul-1997) to the EMBL/GenBank/DDBJ databases.  
 RN [4]  
 RP X-RAY CRYSTALLOGRAPHY (1.8 ANGSTROMS) OF 682-933.  
 RX MEDLINE=9628128; PubMed=9620806;  
 RA Williams S.P.; Sigler P.B.;  
 RT "Atomic structure of progesterone complexed with its receptor.";  
 RL Nature 393:392-396(1998).  
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN  
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR  
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.  
 CC -1- SUBCELLULAR LOCATION: nuclear.  
 CC -1- ALTERNATIVE PRODUCTS:  
 CC Event-Alternative splicing; Named isoform=2;  
 CC Name=A;  
 CC IsoID=P06401-1; Sequence=Displayed;  
 CC Name=A;  
 CC IsoID=P06401-2; Sequence=VSP 003706;  
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.  
 CC -1- SIMILARITY: Belongs to the nuclear hormone  
 CC subfamily.

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 entities requires a license agreement. (See <http://www.isb-sib.ch/announce/>  
 or send an email to license@sb-sib.ch).

DR EMBL; X51730; CAA36018.1; -;  
 DR EMBL; M15716; AAA60081.1; -;  
 DR EMBL; AF016381; AA001587.1; -;  
 DR PIR; S09971; QRHUP;  
 DR PDB; 1A28; 15-JUL-98.  
 DR PDB; 1E3K; 14-JUN-01.  
 DR TRANSFAC; T00596; -;  
 DR Genew; HGNC:8910; PCR.  
 DR MIM; 607311; -;  
 DR MIM; 264080; -;  
 DR GO; GO:0003707; F:steroid hormone receptor activity; TAS.  
 DR GO; GO:0007267; P:cell-cell signaling; TAS.  
 DR GO; GO:0007165; P:signal transduction; TAS.  
 DR InterPro; IPR00536; Hormone rec\_lig.  
 DR InterPro; IPR00128; Progesterone receptor.  
 DR InterPro; IPR001723; Steroid\_hormone\_receptor.  
 DR InterPro; IPR001628; Znf\_C4steroid.  
 DR Pfam; PF00104; hormone\_rec; 1.  
 DR Pfam; PF02161; Prog\_rec; 1.  
 DR Pfam; PF00105; zf\_C4; 1.  
 DR PRINTS: PR000398; STROIDHORMONER.  
 DR PRINTS: PR00047; STROIDFINGER.  
 DR Prodome: PD000035; Znf\_C4steroid; 1.  
 DR SMART: SM00430; Holi; 1.  
 DR SMART: SM00399; Znf\_C4; 1.  
 DR PROSITE: PS00031; NUCLEAR\_RECECTOR; 1.  
 KW Receptor; Transcription regulation; DNA-binding; Nuclear protein;  
 KW Zinc-Finger; Steroid-binding; Phosphorylation; Alternative splicing;  
 KW 3D-structure; Polymorphism.  
 FT DOMAIN 1 566 MODULATING, PRO-RICH.  
 FT DNA BIND 567 632 NUCLEAR RECEPTOR-TYPE.  
 FT ZN FING 567 587 C4-TYPE.  
 FT ZN FING 603 627 C4-TYPE.  
 FT DOMAIN 681 933 STEROID-BINDING.  
 FT DOMAIN 183 187 NUCLEAR LOCALIZATION SIGNAL (POTENTIAL).  
 FT MOD RES 41 41 PHOSPHORYLATION (BY CK).  
 FT MOD RES 227 227 PHOSPHORYLATION (BY CK).  
 FT MOD RES 232 232 PHOSPHORYLATION (BY CK).  
 FT MOD RES 552 552 PHOSPHORYLATION (BY CK).  
 FT MOD RES 793 793 PHOSPHORYLATION (BY CK).  
 FT VARSPlic 1 164 Missing (in isoform A).  
 FT /PRTid=VSP 003706.  
 FT VARIANT 625 625 R -> I (IN dbSNP:2020874).

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PT	CONFICT	256	256	SEQUENCE FROM N.A.		
PT	CONFICT	344	344	RP		
PT	CONFICT	660	660	STRAIN=Sprague-Dawley; TISSUE=Placenta;		
PT	CONFICT	686	693	RA		
PT	CONFICT	694	694	MEDLINE=9413017; PubMed=8229566;		
PT	CONFICT	711	711	RA		
PT	CONFICT	737	738	Park-Sarge O.K.; Mayo K.B.;		
PT	CONFICT	739	741	RT		
PT	CONFICT	744	747	cyclic adenosine 3',5'-monophosphate in rat granulosa cells.";		
PT	CONFICT	744	747	RT		
PT	CONFICT	772	773	RL		
PT	CONFICT	775	779	Endocrinology 134:709-718 (1994).		
PT	CONFICT	780	781	CC		
PT	CONFICT	782	785	-1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN		
PT	CONFICT	786	790	CC		
PT	TURN	791	791	THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR		
PT	TURN	795	811	CC		
PT	TURN	812	812	PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.		
PT	TURN	815	826	CC		
PT	TURN	827	827	-1- SUBCELLULAR LOCATION: Nuclear.		
PT	TURN	829	830	CC		
PT	TURN	832	833	-1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,		
PT	TURN	836	837	CC		
PT	HELIX	838	857	A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.		
PT	TURN	858	859	CC		
PT	HELIX	863	896	-1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3		
PT	TURN	897	897	subfamily.		
PT	HELIX	901	901	CC		
PT	TURN	902	902	This SWISS-PROT entry is copyright. It is produced through a collaboration		
PT	HELIX	907	921	between the Swiss Institute of Bioinformatics and the EMBL outstation -		
PT	TURN	922	923	the European Bioinformatics Institute. There are no restrictions on its		
PT	STRAND	926	927	use by non-profit institutions as long as its content is in no way		
SQ	SEQUENCE	933	AA:	modified and this statement is not removed. Usage by and for commercial		
Query	Query Match	55.8%	Score 765; DB 1; Length 933;	entities requires a license agreement (See <a href="http://www.isb-sib.ch/announce/">http://www.isb-sib.ch/announce/</a> or send an email to license@isb-sib.ch).		
Qy	Best Local Similarity	55.5%	Pred. No. 1 5e-63; Mismatches 53; Indels 0; Gaps 0;	CC		
Qy	Matches	137; Conservative	57; Mismatches 53; Indels 0; Gaps 0;	CC		
Qy	12	PFLANVLAIRPEGVCAHGDNQPSFAALLSLNEKGERQVHVVKWAKALPGFRNLHV	71	CC		
Db	685	PPLNLMSIPEPDVYACHDNTKPDTSLLNLQGEROLISVVKWSKSLPGFRNLHV	744	CC		
Qy	72	DOMAVIQSYMMGLMVRAMGMSFTNNSRMLYFAPDVLVNEYRMHKSRSMSQCVRMHL	131	CC		
Db	745	DPDITLQYSWMSLMLVFGLGWSYKHSQMYFAPDVLVNEYRMHKSRSMSQCVRMHL	804	CC		
Qy	132	SQBFQWTOQITPQBFCLMKALLFSITPVGQKQKFDELRLRNYTKELDRITACKRNP	191	CC		
Db	805	PQBFVKLQVQSBBFLCKMKVLLNTIPLEGGLQSQTQFEMRSYIRELKAIGLROQKV	864	CC		
Qy	192	SCSRRTQVLTKLDSVQPIARSLHQFTDPLIKSHMSVDPPEMARIISVQVKPLSK	251	CC		
Db	865	SQSQRVQLTKLDSVQPIARSLHQFTDPLIKSHMSVDPPEMARIISVQVKPLSK	924	CC		
Qy	252	VKPIYH	258	CC		
Db	925	VKPLFH	931	CC		
RESULT	12	Query Match	55.4%	Score 755; DB 1; Length 923;		
PRGR_RAT	PRGR_RAT	STANDARD;	PRT;	Matches 137; Conservative 55; Mismatches 55; Indels 0; Gaps 0;		
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AC	063449;			Query Match	55.4%	Score 755; DB 1; Length 923;
DT	2000-05-30 (Rel. 39, last sequence update)			Matches 137; Conservative 55; Mismatches 55; Indels 0; Gaps 0;		
DT	2000-05-30 (Rel. 39, last annotation update)			Best Local Similarity 55.5%; Pred. No. 5.5e-63; Mismatches 55; Indels 0; Gaps 0;		
DB	Progesterone receptor (PR).			Query Match	55.4%	Score 755; DB 1; Length 923;
GN	PRG OR NR3C3.			Matches 137; Conservative 55; Mismatches 55; Indels 0; Gaps 0;		
OS	Rattus norvegicus (Rat).			Best Local Similarity 55.5%; Pred. No. 5.5e-63; Mismatches 55; Indels 0; Gaps 0;		
OC	Karyotypic Metacosa; Chordata; Craniata; Vertebrata; Euteleostomi;			Query Match	55.4%	Score 755; DB 1; Length 923;
OC	Mammalia; Buteraria; Rodentia; Scutognathini; Muridae; Murinae; Rattus.			Matches 137; Conservative 55; Mismatches 55; Indels 0; Gaps 0;		
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RT				Matches 137; Conservative 55; Mismatches 55; Indels 0; Gaps 0;		
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RA				Query Match	55.4%	Score 755; DB 1; Length 923;
RA				Matches 137; Conservative 55; Mismatches 55; Indels 0; Gaps 0;		





OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Butheria; Getaridoactyla; Ruminantia; Pecora; Bovidae;  
 OC Bovidae; Caprine; Ovis.  
 RN [1]—TAXID:9940;

RP SEQUENCE FROM N.A.

RC STRAIN=Romanov; TISSUE=Uterus;  
 RA Madigou T., Tiffache C., Le Gall F., Peltier J., Thieulant M.;  
 RL Submitted (S8B-1997) to the EMBL/GenBank/DBJ databases.

CC -!- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN  
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CC -!- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3  
 CC subfamily.

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CC -!-  
 CC

CC BMBL; Z6555; CAA9147.1; -.

DR HSSP; P06401; I228.

DR InterPro; IPR00536; Hormone\_rec\_lig.

DR InterPro; IPR00128; Progest\_Receptor.

DR InterPro; IPR00173; Steroid\_Receptor.

DR InterPro; IPR001628; Znf\_C4steroid.

DR PRO0104; hormone\_rec; 1.

DR Pfam; PF02161; Prog\_receptor; 1.

DR Pfam; PF00105; zf-C4; 1.

DR PRINTS; PRO0398; STRODHORMONER.

DR PRINTS; PRO0047; STROIDFINGER.

DR PRO00035; Znf\_C4steroid; 1.

DR SMART; SM00399; Znf\_C4; 1.

DR PROSITE; PS00031; NUCLEAR\_RECECTOR; 1.

KW Receptor; Transcription regulation; DNA-binding; Nuclear protein;

KW Zinc-finger; Steroid-binding.

PT NON\_TER 1 1 MODULATING, PRO-RICH.

FT DOMAIN <1 15 NUCLEAR RECEPTOR-TYPE.

FT DNA\_BIND 18 83 C4-TYPE.

FT ZN\_FING 18 38 C4-TYPE.

FT ZN\_PING 54 78 C4-TYPE.

FT DOMAIN 128 >377 STEROID-BINDING.

FT NON\_TER 377 377

SQ SEQUENCE 377 AA; 42904 MW; 3141B65587P7493C CRC64;

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 Qy 136 PPLINTLMSIEPDVMTYAGHDNSKDPTSSLTSNOLGERQLSVKNSKSLPGRNLAH 195  
 Qy 72 DDDQMAVQISWMGLAVFANGWRSPTVNNSRLVYAPDLYVNEYRHKERNYSQCVRMHHL 131  
 Qy 196 DDDQTLIQSWMSLAVFGLGWSRSTKVSQMLYAPDLYVNEYRHKERNYSQCVRMHHL 255  
 Qy 132 SOERGWLOQTPOBFLCMKALLSISIIPVGLKNOKEPDLRMMYTKEDRICKRKP 191  
 Db 256 PQSEVKLQLQSOBERLICMKTLLNLTIPGLRSRQNFERNRSSTIREKAIKQKGV 315  
 Qy 192 SCRRPYQTLKLIDSQVPIARELHQFTDPLIKSHMSVDPPEMAETISVQPKLUSK 251  
 Db 316 PSSORFYQLTQKLUDNLHDLVKQHLYCLNTPIQSRLSYEPRMSEVIAQDPKILAG 375  
 Qy 252 VK 253

Db 376 VK 377  
 Search completed: October 9, 2003, 11:41:31  
 Job time : 12 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model  
Run on: October 9, 2003, 11:40:28 ; Search time 19 Seconds  
(without alignments)  
1315.992 Million cell updates/sec

Title: US-09-687-609a-1  
Perfect score: 1371  
Sequence: I GSHMIBGYYCOPIFLIVLEA..... SVQVPKLSQLSKVKPYIFHTQ 260

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched:

283308 seqs, 96188682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

PIR 76.\*  
1: pix1.\*  
2: pix2.\*  
3: pix3.\*  
4: pix4.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

#### ALIGNMENTS

30	213.5	15.6	599	1	ORMSE
31	211.5	15.4	600	1	ORRTE
32	207.5	15.1	503	2	JW0046
33	204.5	14.9	595	1	ORHRE
34	204.5	14.9	701	2	S64737
35	203.5	14.8	477	2	S71400
36	203.5	14.8	530	2	J05939
37	197	14.4	462	2	S44490
38	171	12.5	521	2	A22345
39	170	12.4	433	2	B23345
40	168	12.3	433	2	S58087
41	148.5	10.8	461	1	A44077
42	148.5	10.8	808	1	S31708
43	145.5	10.6	462	2	A40716
44	145	10.6	462	1	A56120
45	10.4	463	2	S26670	

Result No.	Score	Query Match Length	DB ID	Description	
1	1349.5	98.4	899	2	A35895
2	1349.5	98.4	902	2	B40494
3	1349.5	98.4	919	2	A39248
4	1341.5	97.8	910	2	A34721
5	1305	95.3	911	2	B34721
6	1217	88.8	344	2	151330
7	900	65.6	848	2	JG0194
8	766	55.9	930	2	A25923
9	765	55.8	933	1	QRHUP
10	759	55.4	923	2	153280
11	758	55.3	923	2	A39566
12	752	54.9	786	2	A35466
13	665	48.5	984	2	A29513
14	662.5	48.3	777	1	ORHUGA
15	662	48.3	981	2	A41401
16	657.5	48.0	783	1	A25691
17	650.5	47.4	776	1	S44047
18	648.5	47.3	758	2	S60586
19	644.5	47.0	771	2	A54273
20	639.5	46.6	795	1	ORRTG
21	564	41.1	742	1	QRHUGB
22	387	28.2	166	2	S35795
23	285	20.9	110	2	I53287
24	222	16.2	535	2	S58224
25	218.5	15.9	589	1	ORCHE
26	218	15.9	1	ORXLE	
27	216.5	15.8	595	2	I47140
28	215	15.7	620	2	T10423
29	214.5	15.6	574	2	A37197



R; Kuiper, G.G.J.M.; Faber, P.W.; van Rooij, H.C.J.; van der Korput, J.A.G.M.; Rib-Stalpe, J. Mol. Endocrinol. 2, R1-R4, 1989  
 A; Title: Structural organization of the human androgen receptor gene.  
 A; Reference number: A60946; MUID:89322749; PMID:2546571  
 A; Molecule type: DNA  
 A; Residues: 536-540,587-591,626-631,723-726,770-774,814-818,867-870 <XMT>  
 R; Lubahn, D.B.; Joseph, D.R.; Sar, M.; Tan, J.; Higgs, H.N.; Larson, R.E.; French, P.S.; Mol. Endocrinol. 2, 1265-1275, 1988  
 A; Title: The human androgen receptor: complementary deoxyribonucleic acid cloning, sequence and expression of a cDNA encoding the human androgen receptor  
 A; Reference number: A34942; MUID:89112208; PMID:3216866  
 A; Molecule type: mRNA  
 A; Residues: 1-919 <LU3>  
 A; Cross-references: GB:M20132; NID:9178627; PMID:AAA51729.1; PID:9178628; GB:J03180  
 R; Trampont, J.; Klaassen, P.; Kuiper, G.G.J.M.; van der Korput, J.A.G.M.; Faber, P.W.; van Blochem, Biophys. Rev. Commun. 153, 241-248, 1988  
 A; Title: Cloning, structure and expression of a cDNA encoding the human androgen receptor  
 A; Reference number: A27653; MUID:88240407; PMID:3377788  
 A; Accession: A27653  
 A; Molecule type: mRNA  
 A; Residues: 468-564, 'K', 566-919 <TRA>  
 A; Cross-references: GB:M20260; NID:9178891; PMID:AAA51774.1; PID:9178892  
 A; Note: the authors translated the codon AAG for residue 565 as Glu  
 R; Chang, C.; Kokontis, J.; Liao, S.  
 C; Science, 240, 324-326, 1988  
 A; Title: Molecular cloning of human and rat complementary DNA encoding androgen receptor  
 A; Reference number: A40108; MUID:88178111; PMID:3353726  
 A; Accession: A40108  
 A; Molecule type: mRNA  
 A; Residues: 557-628 <CHA>  
 A; Cross-references: GB:M8624  
 R; Chang, C.; Kokontis, J.; Liao, S.  
 Proc. Natl. Acad. Sci. U.S.A. 85, 7211-7215, 1988  
 A; Title: Structural analysis of complementary DNA and amino acid sequences of human and A; Reference number: A40494; MUID:89017168; PMID:3174628  
 A; Accession: A40494  
 A; Molecule type: mRNA  
 A; Residues: 1-74, 79-89, 'H', 90-472, 'GGG', 473-474, 'B', 476-644, 'N', 646-919 <CH2>  
 R; Tilley, W.D.; Maccelli, M.; Wilson, J.D.; McPhaul, M.J.  
 Proc. Natl. Acad. Sci. U.S.A. 86, 327-331, 1989  
 A; Title: Characterization and expression of a cDNA encoding the human androgen receptor.  
 A; Reference number: A32224; MUID:89098909; PMID:2911578  
 A; Accession: A32224  
 A; Molecule type: mRNA  
 A; Residues: 1-77, 79-211, 'R', 213-471, 473-919 <TL>  
 A; Cross-references: GB:M11748; GB:J041150; NID:9178871; PMID:AAA51771.1; PID:9178872  
 R; Mowczowicz, I.; Lee, H.T.; Mestayer, C.; Bortois, M.C.; Cabrol, S.; Mauvai, Mol. Endocrinol. 7, 861-869, 1993  
 A; Title: A point mutation in the second zinc finger of the DNA-binding domain of the and A; Reference number: A40715; MUID:94019395; PMID:8413310  
 A; Accession: A40715  
 A; Species: not compared with conceptual translation  
 A; Molecule type: DNA  
 A; Residues: 557-614, 'H', 616-624 <MOW>  
 A; Cross-references: PIDN:AB28340.1; PID:9425580  
 C; Genetisa  
 A; Gene: GDB:AR  
 A; Cross-references: GDB:120556; OMIM:313700  
 A; MDP position: Xq11-Xq12  
 A; Introns: 538/2; 589/1; 628/1; 724/1; 772/2; 816/1; 868/3  
 C; Superfamily: unassigned  
 C; Keywords: DNA binding; steroid binding; transcription regulation; zinc finger  
 F; 557-815; Domain: erba transforming protein homology <ERBA>  
 F; 559-579; Region: zinc finger  
 F; 595-619; Region: zinc finger

RESULT 4  
 A34721  
 androgen receptor A - human  
 C; Species: Homo sapiens (man)  
 C; Date: 31-Mar-1991 #sequence\_revision 31-Mar-1991 #text\_change 12-Sep-1997  
 C; Accession: A34721  
 R; Govindan, M.V.  
 Mol. Endocrinol. 4, 417-427, 1990  
 A; Title: Specific region in hormone binding domain is essential for hormone binding and A; Reference number: A34721; MUID:90258935; PMID:2342476  
 A; Accession: A34721  
 A; Molecule type: mRNA  
 A; Residues: 1-910 <GOV>  
 C; Superfamily: unassigned  
 C; Keywords: zinc finger  
 F; 548-806; Domain: erba transforming protein homology <ERBA>  
 F; 559-570; Region: zinc finger  
 F; 586-610; Region: zinc finger

Query Match 97.8%; Score 1341.5; DB 2; Length 910;  
 Matches 256; Conservative 98.8%; Pred. No. 1.4e-117; Indels 1; Gaps 1;

Qy 2 SHMTEGGEGQPIFNLVLEAIEPGVCAQDNNQPSFALLSSNLGERQHVKMK 61  
 Db 653 SH-IEGEGCOPIFNLVLEAIEPGVCAQDNNQPSFALLSSNLGERQHVKMK 711

Qy 62 ALPGRNLNDQDAMVQIGVQGWMANPAGWRSITVNSRMIFAPDLYFNETRHKSM 121  
 Db 712 ALPGRNLNDQDAMVQIGVQGWMANPAGWRSITVNSRMIFAPDLYFNETRHKSM 771

Qy 122 YSQCVMRHLSQEGWLOTPQESTLCMKALLSSIIIPVQGLKQKFPDRLRMYTKELR 181  
 Db 772 YSQCVMRHLSQEGWLOTPQESTLCMKALLSSIIIPVQGLKQKFPDRLRMYTKELR 831

Qy 182 IIACKRKNTCSRFYQPTKLNLSQPAEHLQFPTDLIILSHMSVDPENMAKIS 241  
 Db 832 IIACKRKNTCSRFYQPTKLNLSQPAEHLQFPTDLIILSHMSVDPENMAKIS 891

Qy 242 VQVKLISKKUKPQYHFO 260  
 Db 892 VQVKLISKKUKPQYHFO 910

RESULT 5  
 B34721  
 androgen receptor B - human  
 C; Species: Homo sapiens (man)  
 C; Date: 31-Mar-1991 #sequence\_revision 31-Mar-1991 #text\_change 12-Sep-1997  
 C; Accession: B34721  
 R; Govindan, M.V.

Mol. Endocrinol. 4, 417-427, 1990

Query Match 98.4%; Score 1349.5; DB 2; Length 919;  
 Best Local Similarity 99.6%; Pred. No. 2.6e-118;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

A;Title: Specific region in hormone binding domain is essential for hormone binding and  
A;Reference number: A34721; MUID:90258035; PMID:2342476  
A;Accession: B34721  
A;Molecule type: mRNA  
A;Residues: 1-911 <GO2>  
C;Superfamily: zinc finger  
C;Keywords: erba transforming protein homology <ERBA>  
P;548-806/Domain: erba transforming protein homology <ERBA>  
P;550-570/Region: zinc finger  
F;586-610/Region: zinc finger

## Query Match

95.3%; Score 1306; DB 2; Length 911;  
Best Local Similarity 97.3%; Pred. No. 3. 1e-14; Mismatches 1; Indels 2; Gaps 2;  
Matches 253;

Qy 2 SHMIEGVECQPTFLNVEALEIBPGVVCAGHDNNQPSAFAALISLMEGLEROLVHVKWAK 61  
Db 653 SH-IEGVECQPIFLNVEALEIBPGVVCAGHDNNQPSAFAALISLMEGLEROLVHVKWAK 711  
Qy 62 ALPGFERNLHVDDQMAVQYQSNNGLMVFAMGWRSFTNNSRMLYFAPDVLVNEYRHKSRM 121  
Db 712 ALPGFERNLHVDDQMAVQYQSNNGLMVFAMGWRSFTNNSRMLYFAPDVLVNEYRHKSRM 771

Qy 122 YSQCTYRMHLSQEPGMQITPQFICLKKALIFSIIPDGLKQ-KFDPDELMVNTKELD 180

Db 772 YSQCVERMRHLSQEPGMQITPQFICLKKALIFSIIPDGLKQ-KFDPDELMVNTKELD 831

Qy 181 RIACKERKNPSCSRRTYQPLKUDSVQPIARBLHPTFDLILKSHMSVSDPEMMAI 240  
Db 832 RIACKERKNPSCSRRTYQPLKUDSVQPIARBLHPTFDLILKSHMSVSDPEMMAI 891

Qy 241 SWQVKPLSKGKVKPIYHTQ 260  
Db 892 SVQVKPLSKGKVKPIYHTQ 911

## RESULT 6

151330 androgen receptor - common canary (fragment)  
C;Species: Serinus canaria (common canary)  
C;Date: 13-Sep-1996 #sequence\_revision 13-Sep-1996 #text\_change 20-Sep-1999

C;Accession: 151330  
R;Nastrik, K.I.; Clayton, D.P.  
Endocrinology 134, 640-641, 1994

A;Title: Seasonal and tissue-specific regulation of canary androgen receptor messenger  
A;Reference number: 151330; MUID:94130808; PMID:8299561

A;Accession: 151330  
A;Status: preliminary  
A;Keywords: unassigned erba-related proteins; erba transforming protein homology  
A;Molecule type: mRNA  
A;Residues: 1-44 <NAS>  
A;Cross-references: GB:L025901; NID:9414733; PID:AAA17402.1; PID:9414734  
A;Genetics:  
A;Gene: AR  
C;Superfamily: zinc finger  
C;Keywords: unassigned erba-related proteins; erba transforming protein homology  
F;1-251/Domain: erba transforming protein homology (fragment) <ERBA>

Query Match 88.8%; Score 1217; DB 2; Length 344;  
Best Local Similarity 92.7%; Pred. No. 2e-106; Mismatches 13; Indels 5; Gaps 0;  
Matches 227; Conservative

Qy 5 IIGYECQPIFLNTEAIBPGVVCAGHDNNQPSAFAALISLMEGLEROLVHVKWAKL 64  
Db 100 IIGYECQPIFLNTEAIBPGVVCAGHDNNQPSAFAALISLMEGLEROLVHVKWAKL 159

Qy 65 GRNLHDTDOMAVTOYQSNNGLMVFAMGWRSFTNNSRMLYFAPDVLVNEYRHKSRM 124  
Db 160 GRNLHDTDOMAVTOYQSNNGLMVFAMGWRSFTNNSRMLYFAPDVLVNEYRHKSRM 219

Qy 125 CTYRMHLSQEPGMQITPQFICLKKALIFSIIPDGLKQ-KFDPDELMVNTKELD 184  
Db 220 CTYRMHLSQEPGMQITPQFICLKKALIFSIIPDGLKQ-KFDPDELMVNTKELD 279

## RESULT 7

JG0194 androgen receptor - Japanese eel  
C;Species: Anguilla japonica (Japanese eel)  
C;Date: 23-Jul-1999 #sequence\_revision 23-Jul-1999 #text\_change 11-May-2000

C;Accession: JG0194  
R;Ito, T.; Ikeuchi, T.; Kobayashi, T.; Nagahama, Y.  
Biochem. Biophys. Res. Commun. 254, 378-383, 1999

A;Title: Fish androgen receptor; cDNA cloning, steroid activation of transcription in tri  
A;Reference number: JG0194; MUID:99119319; PMID:9918846  
A;Accession: JG0194  
A;Status: preliminary  
A;Keywords: mRNA  
A;Residues: 1-848 <TOD>

C;Superfamily: unassigned erba-related proteins; erba transforming protein homology <ERBA>  
F;1491-745/Domain: erba transforming protein homology <ERBA>

Query Match 65.6%; Score 900; DB 2; Length 848;  
Best Local Similarity 68.1%; Pred. No. 3. 7e-76; Mismatches 35; Indels 4; Gaps 2;  
Matches 173; Conservative

Qy 596 GHEQCPINAVLAEIBPGVVCAGHDNNQPSAFAALISLMEGLEROLVHVKWAKL 66  
Db 596 RSLVQDQMTVQIGHMMAVVFLGKRSKPKVNSRMLYFAPDVLVNEYRHKSRM 655

Qy 67 RNLAYHDQMAVTOYQSNNGLMVFAMGWRSFTNNSRMLYFAPDVLVNEYRHKSRM 126  
Db 656 RSLVQDQMTVQIGHMMAVVFLGKRSKPKVNSRMLYFAPDVLVNEYRHKSRM 715

Qy 127 RMRFLSQBGGWLTQPORFLCKMLLISIIPDGLKQKFPELRYMVKEDRITACK 186  
Db 716 RMKFLSQBGGWLTQPORFLCKMLLISIIPDGLKQKFPELRYMVKEDRITACK 775

Qy 187 RKNFTSCSRPFYQPLKUDSVQPIARBLHPTFDLILKSHMSVSDPEMMAI 244  
Db 776 SK--SSCSRFQFLTLUDSLSQPVLKQ-KFDPDELMVNTKELD 833

Qy 245 PKLISGKVKPIYFH 258  
Db 834 PKLISGKVKPIYFH 847

A;Title: Cloning and sequence analysis of rabbit progesterone-receptor complementary DNA  
A;Reference number: A25923; MUID:87067449; PMID:3530016  
A;Accession: A25923  
A;Molecule type: mRNA  
A;Residues 1-930 <LOO>  
A;Cross-references: GB:M14547; NID:9165631; PID:AAA131443.1; PID:9165632  
C;Superfamily: progesterone receptor; erba transforming protein homology <ERBA>  
C;Keywords: DNA binding; nucleus; steroid hormone receptor; transcription regulation; zi  
F;1566-826/Domain: erba transforming protein homology <ERBA>  
F;1566-588/Region: zinc finger  
F;604-628/Region: zinc finger

## RESULT 8

Query Match 55.9%; Score 766; DB 2; Length 930;  
Best Local Similarity 55.5%; Pred. No. 1. 6e-63;

Qy 185 CKRKNPSCSRRYQVLTQKLDSVQPIARBLHPTFDLILKSHMSVSDPEMMAI 244  
Db 280 CKRKNPSCSRRYQVLTQKLDSVQPIARBLHPTFDLILKSHMSVSDPEMMAI 339  
Qy 245 PKLIS 249  
Db 340 PKLIS 344

Matches	137: Conservative	57: Mismatches	53: Indels	0: Gaps	0:
Y	12 PIFLNVLTEA1BPGVYCAHHDDNQDPSFAALLSSNLGEROLVWVWKAALPGERFLAV 71	12 PIFLNVLTEA1BPGVYCAHHDDNQDPSFAALLSSNLGEROLVWVWKAALPGERFLAV 71	QY	12 PIFLNVLTEA1BPGVYCAHHDDNQDPSFAALLSSNLGEROLVWVWKAALPGERFLAV 71	QY
b	682 PPLINLMSIEPDVYIAGHDNTKPDTSLLTSNLQGEROLLSVVKWSLPGFRNLH 741	685 PPLINLMSIEPDVYIAGHDNTKPDTSLLTSNLQGEROLLSVVKWSLPGFRNLH 741	Db	685 PPLINLMSIEPDVYIAGHDNTKPDTSLLTSNLQGEROLLSVVKWSLPGFRNLH 741	Db
b	72 DDPMAVITQYKWMGLMVPAMGRSPTVNNSRMLYFAPDLVNEYRMEKRSRMSOCYRMHL 131	72 DDPMAVITQYKWMGLMVPAMGRSPTVNNSRMLYFAPDLVNEYRMEKRSRMSOCYRMHL 131	QY	72 DDPMAVITQYKWMGLMVPAMGRSPTVNNSRMLYFAPDLVNEYRMEKRSRMSOCYRMHL 131	QY
b	742 DDQITLQIYQWSMSLAVFGLGWRSYKRSQMLYFAPDLINEMKRSRMSOCYRMHL 804	745 DDQITLQIYQWSMSLAVFGLGWRSYKRSQMLYFAPDLINEMKRSRMSOCYRMHL 804	Db	745 DDQITLQIYQWSMSLAVFGLGWRSYKRSQMLYFAPDLINEMKRSRMSOCYRMHL 804	Db
b	742 DDQITLQIYQWSMSLAVFGLGWRSYKRSQMLYFAPDLINEMKRSRMSOCYRMHL 804	745 DDQITLQIYQWSMSLAVFGLGWRSYKRSQMLYFAPDLINEMKRSRMSOCYRMHL 804	QY	745 DDQITLQIYQWSMSLAVFGLGWRSYKRSQMLYFAPDLINEMKRSRMSOCYRMHL 804	QY
b	132 SOBRGWLQITPQFCLMKALLPSIIPVNDGLKQKNEPDELRYMVKELDRITACKRNP 191	132 SOBRGWLQITPQFCLMKALLPSIIPVNDGLKQKNEPDELRYMVKELDRITACKRNP 191	Db	132 SOBRGWLQITPQFCLMKALLPSIIPVNDGLKQKNEPDELRYMVKELDRITACKRNP 191	Db
b	802 PQEFTVQLQSVQEPEFLCKVLLNLTPLGILRSQFPESSYVRLIKAGIRQKGWV 861	805 PQEFTVQLQSVQEPEFLCKVLLNLTPLGILRSQFPESSYVRLIKAGIRQKGWV 864	QY	805 PQEFTVQLQSVQEPEFLCKVLLNLTPLGILRSQFPESSYVRLIKAGIRQKGWV 864	QY
b	192 SCSRQYQLTKLDSVQPIARELHQFTDLIKSNSVDPPEMMAITSVQVKILSGK 251	192 SCSRQYQLTKLDSVQPIARELHQFTDLIKSNSVDPPEMMAITSVQVKILSGK 251	Db	192 SCSRQYQLTKLDSVQPIARELHQFTDLIKSNSVDPPEMMAITSVQVKILSGK 251	Db
b	862 SSSQRFYQLTQDNLNHLVQDHLYCLNTFQSRALSVPEPMSVIAQOLPKLADM 921	865 SSSQRFYQLTQDNLNHLVQDHLYCLNTFQSRALSVPEPMSVIAQOLPKLADM 924	QY	865 SSSQRFYQLTQDNLNHLVQDHLYCLNTFQSRALSVPEPMSVIAQOLPKLADM 924	QY
b	252 VKPTVHF 258	252 VKPTVHF 258	Db	252 VKPTVHF 258	Db
b	922 VKPLLFH 928	925 VKPLLFH 931	Db	925 VKPLLFH 931	Db
<b>RESULT 9</b>					
REUP					
progesterone receptor form B - human					
;Alternate names: hPR					
;Contains: progesterone receptor form A					
;Species: Homo sapiens (man)					
;Date: 30-Jun-1987 #sequence_revision 18-Nov-1994 #text_change 22-Jun-1999					
;Accession: S09971; S12464; R03245					
;Title: Two distinct estrogen-regulated promoters generate transcripts encoding the two					
;Reference number: S09971; MUID:90228361; PMID:232877					
;Accession: S09971					
;Molecule type: mRNA					
;Residues: 1-933 <KAS>					
;Cross-references: EMBL:X51730					
submitted to the EMBL Data Library, February 1990					
;Reference number: S12464					
;Accession: S12464					
;Molecule type: mRNA					
;Residues: 1-343; T-345-933 <KA2>					
;Cross-references: EMBL:X51730; NID:935651; PIDN:CAA36018; PID:935652					
;Misrahi, M.; Atger, M.; D'Auriol, L.; Loofelt, H.; Meriel, C.; Fridlansky, F.; Guioch					
;Lochem, Biophys. Res. Commun. 143, 740-748, 1987					
;Title: Complete amino acid sequence of the human progesterone receptor deduced from c1					
;Reference number: A03245; MUID:87184565; PMID:3551956					
;Accession: A03245					
;Molecule type: mRNA					
;Residues: 1-225; 'G' 227-255; 'V' 257-659; 'V' 661-933 <MS>					
;Cross-references: GB:MI5716; NID:9189934; PIDN:AA60081; PID:9189935					
;Genetics: GDB:PCB					
;Cross-references: GDB:119493; OMM:264080					
;Map position: 1q22.1-11q22.3					
;Map position: 1q22.1-11q22.3					
;Superfamily: progesterone receptor; erba transforming protein homology <ERBA>					
;Keywords: alternative splicing; DNA binding; nucleus; phosphoprotein; steroid hormone					
;Key words: alternative splicing; DNA binding; nucleus; phosphoprotein; steroid hormone					
;Key words: alternative splicing; DNA binding; nucleus; phosphoprotein; steroid hormone					
;Key words: alternative splicing; DNA binding; nucleus; phosphoprotein; steroid hormone					
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QY 132 SQRPGWLOITPPQFLCMKALLSIPVPGKQKFPELRNMYKEIDRITACKRPT 191  
 C;Date: 18-Nov-1994 #sequence\_revision 18-Nov-1994 #text\_change 20-Aug-1999  
 C;Accession: A35466; S06284; R40903; K42461; A24312; A40911; A15152  
 C;Cross-references: GB:M68915; GB:J05333; NID:9200471; PIDN:AAA3971.1; PID:9200472  
 R;Haghara, K.; Wu-Peng, X.S.; Funabashi, T.; Kato, J.; Pfaff, D.W.  
 Biochem. Biophys. Res. Commun. 205, 1093-1101, 1994  
 A;Title: Nucleic acid sequence and phase hyperensitive sites of the 5' region of the mc  
 A;Reference number: 149111; MUID:9500931; PMID:7802637  
 A;Status: Preliminary; translated from GB/EMBL/DBJ  
 A;Residues: 1-9 <HAG>  
 A;Cross-references: EMBL:U12644; NID:9639916; PIDN:AAA6067.1; PID:9639917  
 C;Superfamily: progesterone receptor; erba transforming protein homology  
 C;Keywords: DNA binding; nucleus; steroid hormone receptor; transcription regulation; zi  
 F;P557-577/Region: zinc finger  
 F;5593-617/Region: zinc finger

Query Match 55.3%; Score 758; DB 2; Length 923;  
 Best Local Similarity 55.1%; Pred. No. 8,9e-63;  
 Matches 136; Conservative 56; Mismatches 55; Indels 0; Gaps 0;

QY 12 PIFFLVNLVIAERPGVCAHGHDNQDPSFPAUSSLNLNEGLERQLVHUVKWAQALPGFRHLV 71  
 C;Accession: A24661; MUID:86289413; PMID:2426779  
 A;Residues: 128-133,'E',135-147,'E',149-164 <CO2>  
 A;Note: the authors translated the codon CAG for residue 7 as Glu and CAG for residue 21  
 R;Jeltach, J.M.; Krozowski, Z.; Quirin-Stricker, C.; Gronemeyer, H.; Simpson, R.J.; Garn  
 Proc. Natl. Acad. Sci. U.S.A. 83, 5424-5428, 1986  
 A;Title: Cloning of the chicken progesterone receptor.  
 A;Reference number: A24312; MUID:86287271; PMID:242697  
 A;Accession: A24312  
 A;Molecule type: mRNA  
 A;Residues: 417-490 <JE2>  
 A;Cross-references: GB:M14280; NID:9212607; PIDN:AAA9039.1; PID:9212608  
 A;Note: amino acid and corresponding nucleotide sequences are also shown for three small  
 R;Birnbaum, M.; Hinrichs-Rosello, M.V.; Cook, R.G.; Schrader, W.T.; O'Malley, B.W.  
 Mol. Endocrinol. 1, 249-259, 1987  
 A;Title: Chemical and antigenic properties of pure 188, 000 molecular weight chick proges  
 A;Reference number: A40911; MUID:88288199; PMID:345392  
 A;Accession: A40911  
 A;Status: Preliminary  
 A;Molecule type: protein  
 A;Residues: 128-133, E, 135-147, 'E', 149-164, 546-558 <BR>  
 R;Simpson, R.J.; Grego, B.; Govindan, M.V.; Gronemeyer, H.  
 Mol. Cell. Endocrinol. 52, 177-184, 1987  
 A;Title: Peptide sequencing of the chick oviduct progesterone receptor form B.  
 A;Reference number: A61552; MUID:88005426; PMID:3653503  
 A;Accession: A61552  
 A;Molecule type: protein  
 A;Residues: 136-153, 168-174, 195-228, 526-537, 'X', 539, 546-563 <STM>  
 A;Genetics:  
 A;Introns: 40/0/2; 451/1; 490/1; 591/1; 639/2; 683/1; 735/3  
 C;Superfamily: progesterone receptor; erba transforming protein homology  
 C;Keywords: DNA binding; nucleus; steroid hormone receptor; zinc finger  
 F;1-786/Product: progesterone receptor form B #status predicted <MA1>  
 F;1-786/Product: progesterone receptor form A #status predicted <MA2>  
 F;419-682/Domain: erba transforming protein homology <ERBA>  
 F;421-441/Region: zinc finger  
 F;457-481/Region: zinc finger

Query Match 54.9%; Score 752; DB 2; Length 785;  
 Best Local Similarity 56.3%; Pred. No. 2.6e-62;  
 Matches 139; Conservative 53; Mismatches 55; Indels 0; Gaps 0;

RESULT 12  
 A35466  
 N;Contains: Progesterone receptor form A  
 C;Species: Gallus gallus (chicken)



RESULT 15

A41401 GB:J36074; NID:9205340; PID:AAA41583.1; RID:9205341  
 C;Date: 03-Apr-1992 #sequence\_revision 03-Apr-1992 #text\_change 20-Sep-1999  
 C;Accession: A41401  
 C;Keywords: DNA binding; transcription regulation; zinc finger  
 Mol: Endocrinol. 3, 1877-1885, 1989  
 A;Title: Molecular cloning of a mineralocorticoid (type I) receptor complementary DNA  
 A;Reference number: A41401; MUID:9014194; PMID:2558305  
 A;Accession: A41401  
 A;Status: Preliminary  
 A;Molecule type: mRNA  
 A;Residues: 1-981 <PRT>  
 A;Cross-references: GB:J36074; NID:9205340; PID:AAA41583.1; RID:9205341  
 C;Superfamily: unassigned erba-related proteins; erba transforming protein homology  
 C;Keywords: DNA binding; transcription regulation; zinc finger  
 F:601-877;Domain: erba; transforming protein homology <ERBA>  
 F:601-624;Region: zinc finger  
 F:640-664;Region: zinc finger

Query Match 48.3%; Score 662; DB 2; Length 981;  
 Best Local Similarity 52.2%; Pred. No. 9.9e-54; Mismatches 64; Indels 6; Gaps 2;  
 Matches 128; Conservative 47; Mismatches 64; Index 6; Gaps 2;

QY 17 VIBAIEPVGVCAGHDDNNQDPSFAMLLSNELGEROLVAVVKWAKALPGRPTLANDDDMA 76  
 DB 738 ILENIEKPEPVYAGYDNDNSKEDTAESLISTERNLAAKQMIQVVKWAKVLPGFKNLFDQIT 797  
 QY 77 VIQYSWGMILVRANGWRSRSTVNNSRMLYAPDLYNEVYHEKNSYNSQCYTRMRHLSQEGT 136  
 798 LIQYSWMCILSFSFALSWSRSYKHTNSQQLYFADPLVNEEKKHQSAMVYELCOGMROISLQFV 857  
 Db 137 WQITPQFLPKMALLLISIIPDGKNOKEFDSLARMYKELURILACKRKNPSCS-- 194  
 QY 858 RQFLTFEYYSIMKOTILLIUSTPVKGDKLSSAERMRNTYKELKMT--KCNNSQOS 914  
 Db 195 -RPFYQLTKLUDSVQPIARBLHQFTFDLILKSHMSVDPREMMARLISVQVKLISGKV 253  
 QY :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 Db 915 WQRFYQLTKLUDSHMDLVDSDLERFCYTFRRESQALKVERPAMLVITDQLPKVSGNAX 974  
 QY 254 RTYFH 258  
 Db 975 PLYFH 979

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: October 9, 2003, 11:41:18 ; Search time 27 Seconds

Sequence: 1 GSHMIEGECQPIFLNVEA..... SVQVPKILSGKVPIYFFHQ 260

(without alignments)  
 151.607 Million cell updates/sec

Title: US-09-687-609A-1

Perfect score: 1371

Sequence: 1 GSHMIEGECQPIFLNVEA..... SVQVPKILSGKVPIYFFHQ 260

(without alignments)  
 151.607 Million cell updates/sec

Scoring table: BLASTN62

Gapop 10.0 , Gapext 0.5

Searched: 600653 seqs, 16128415 residues

Total number of hits satisfying chosen parameters: 600653

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubpaa/us07\_PUBCOMB.pep:\*

2: /cgn2\_6/ptodata/1/pubpaa/PC17\_NEW\_PUB.pep:\*

3: /cgn2\_6/ptodata/1/pubpaa/us06\_NEW\_PUB.pep:\*

4: /cgn2\_6/ptodata/1/pubpaa/us05\_PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/1/pubpaa/PC05\_PUB.pep:\*

6: /cgn2\_6/ptodata/1/pubpaa/PC05\_PUBCOMB.pep:\*

7: /cgn2\_6/ptodata/1/pubpaa/us08\_NEW\_PUB.pep:\*

8: /cgn2\_6/ptodata/1/pubpaa/us08\_PUBCOMB.pep:\*

9: /cgn2\_6/ptodata/1/pubpaa/us09\_PUBCOMB.pep:\*

10: /cgn2\_6/ptodata/1/pubpaa/us09\_PUBCOMB.pep:\*

11: /cgn2\_6/ptodata/1/pubpaa/us09C\_PUBCOMB.pep:\*

12: /cgn2\_6/ptodata/1/pubpaa/us09\_NEW\_PUB.pep:\*

13: /cgn2\_6/ptodata/1/pubpaa/us10\_PUBCOMB.pep:\*

14: /cgn2\_6/ptodata/1/pubpaa/us10\_PUBCOMB.pep:\*

15: /cgn2\_6/ptodata/1/pubpaa/us10C\_PUBCOMB.pep:\*

16: /cgn2\_6/ptodata/1/pubpaa/us10\_NEW\_PUB.pep:\*

17: /cgn2\_6/ptodata/1/pubpaa/us60\_NEW\_PUBCOMB.pep:\*

18: /cgn2\_6/ptodata/1/pubpaa/us60\_PUBCOMB.pep:\*

## RESULT 1

US-10-220-981-1

Sequence 1, Application US/10220981

Publication No. US20030167999A1

GENERAL INFORMATION:

APPLICANT: Schering AG

APPLICANT: Donner, Peter

APPLICANT: Egner, Ursula

APPLICANT: Carrondo, Maria A

APPLICANT: Matias, Pedro M

TITLE OF INVENTION: Crystal

FILE REFERENCE: P08463WO CTH

CURRENT APPLICATION NUMBER: US/10/220,981

CURRENT FILING DATE: 2002-09-09

PRIORITY APPLICATION NUMBER: GB 0005689.5

PRIORITY FILING DATE: 2000-03-09

NUMBER OF SEQ ID NOS: 3

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 1

LENGTH: 263

TYPE: PRT

ORGANISM: Homo sapiens

US-10-220-981-1

Query Match Similarity 98.4%; Score 1349.5; DB 12; Length 263;

Best Local Similarity 99.6%; Pred. No. 1..1e-142; Indels 1; Gaps 1;

Matches 258; Conservative 0; Mismatches 0;

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Sequence 3, Appli

Sequence 4, Appli

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Sequence 10, Appli

Sequence 11, Appli

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Sequence 13, Appli

Sequence 14, Appli

Sequence 15, Appli

1 1349.5 98.4 263 12 US-10-220-981-1 Sequence 1, Appli  
 2 1349.5 98.4 388 10 US-09-997-267-A Sequence 2, Appli  
 3 1349.5 98.4 907 14 US-10-088-73A-2 Sequence 3, Appli  
 4 1349.5 98.4 919 15 US-10-205-823-36 Sequence 4, Appli  
 5 1243 90.7 246 10 US-09-835-821-1 Sequence 5, Appli  
 6 813.5 99.3 294 10 US-09-937-674-6 Sequence 6, Appli  
 7 765 55.8 258 12 US-10-220-81-3 Sequence 7, Appli  
 8 765 55.8 314 10 US-09-887-280-4 Sequence 8, Appli  
 9 765 55.8 15 US-10-207-652-63 Sequence 9, Appli  
 10 728 53.1 240 10 US-09-905-176-13 Sequence 10, Appli  
 11 666 48.6 215 15 US-09-905-176-11 Sequence 11, Appli  
 12 662.5 48.3 777 15 US-10-153-668-226 Sequence 12, Appli  
 13 662 48.3 689 15 US-10-202-84-2 Sequence 13, Appli  
 14 639.5 46.6 1070 15 US-10-001-468B-2 Sequence 14, Appli  
 15 630.5 46.0 284 10 US-09-833-450-20 Sequence 15, Appli

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No. Score Query Length DB ID

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 Sequence 599, Appli

Db 125 YSQCVRMHLSQERGMQLTQFQFLCKMALLFSITPVDGLKNOQFDFERMYIKELDR 184 ; SEQ ID NO: 2  
 Qy 182 IACKRKNPISCSRFLQTKLISQVPIARBLHQFTFLKHMVSDFPPEMAETIS 241 ; LENGTH: 907  
 Db 185 IACKRKNPISCSRFLQTKLDSQVPIARBLHQFTFLKHMVSDFPPEMAETIS 244 ; TYPE: PRT  
 Qy 242 VQVKLISGKVKP1YHTQ 260 ; ORGANISM: Canine  
 Db 245 VQVKLISGKVKP1YHTQ 263 ; US-10-008-739A-2

RESULT 2  
 US-09-997-267-2  
 ; Sequence 2, Application US/09997267  
 ; Patent No. US20020165381A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: AHRENS-FATH, ISABELLE  
 ; APPLICANT: HAENDLER, BERNARD  
 ; TITLE OF INVENTION: HUMAN ANDROGEN RECEPTOR VARIANTS  
 ; FILE REFERENCE: SCH-1793  
 ; CURRENT APPLICATION NUMBER: US/09-997, 267  
 ; CURRENT FILING DATE: 2001-11-30  
 ; PRIOR APPLICATION NUMBER: 60/355, 078  
 ; PRIOR FILING DATE: 2000-12-14  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO: 2  
 ; LENGTH: 388  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-997-267-2

Query Match 98.4%; Score 1349.5; DB 10; Length 388;  
 Best Local Similarity 99.6%; Pred. No. 2e-142; 0; Mismatches 0; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; MisMatches 0; Indels 1; Gaps 1;

Qy 2 SHMIEGEGECQPIFLNVLAIEPGVUCAGHNMQDPSAHLSSNLIGEROLVHVKAK 61 ;  
 Db 131 SH-1EGYECQPIFLNVLAIEPGVUCAGHNMQDPSAHLSSNLIGEROLVHVKAK 189 ;  
 Qy 62 ALPGFRNLHQDMQVAMIQWSWGMGLAVFAMGWSRSPFTNNSRMLYAPDLYENYRMHKSRM 121 ;  
 Db 190 ALPGFRNLHQDMQVAMIQWSWGMGLAVFAMGWSRSPFTNNSRMLYAPDLYENYRMHKSRM 249 ;  
 Qy 122 YSQCVRMHLSQERGMQLTQFQFLCKMALLFSITPVDGLKNOQFDFERMYIKELDR 181 ;  
 Db 250 YSQCVRMHLSQERGMQLTQFQFLCKMALLFSITPVDGLKNOQFDFERMYIKELDR 309 ;  
 Qy 182 IACKRKNPISCSRFLQTKLDSQVPIARBLHQFTFLKHMVSDFPPEMAETIS 241 ;  
 Db 310 IACKRKNPISCSRFLQTKLDSQVPIARBLHQFTFLKHMVSDFPPEMAETIS 369 ;  
 Qy 242 VQVKLISGKVKP1YHTQ 260 ;  
 Db 370 VQVKLISGKVKP1YHTQ 388 ;  
 ; US-10-205-823-36  
 ; Sequence 36, Application US/10205823  
 ; Publication No. US20030108963A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Schlegel, Robert  
 ; APPLICANT: Monahan, John E.  
 ; APPLICANT: Endege, Wilson O.  
 ; APPLICANT: Gammavaram, Manjula  
 ; APPLICANT: Gorbatcheva, Bella  
 ; APPLICANT: Hoersch, Sebastian  
 ; APPLICANT: Kamatkar, Shubhangi  
 ; APPLICANT: Monsey, Angela M.  
 ; APPLICANT: Glatt, Karen  
 ; APPLICANT: Zhao, Xumei  
 ; APPLICANT: Anderson, Dustin  
 ; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
 ; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER  
 ; FILE REFERENCE: MBI-044  
 ; CURRENT APPLICATION NUMBER: US/10/205, 823  
 ; CURRENT FILING DATE: 2002-07-25  
 ; PRIOR APPLICATION NUMBER: 60/307, 982  
 ; PRIOR APPLICATION NUMBER: 60/314, 356  
 ; PRIOR FILING DATE: 2001-07-25  
 ; PRIOR APPLICATION NUMBER: 60/325, 020  
 ; PRIOR FILING DATE: 2001-09-25  
 ; PRIOR APPLICATION NUMBER: 60/341, 746  
 ; PRIOR FILING DATE: 2001-12-12  
 ; PRIOR APPLICATION NUMBER: 60/362, 158  
 ; PRIOR FILING DATE: 2002-03-05  
 ; NUMBER OF SEQ ID NOS: 455  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 36  
 ; LENGTH: 919  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-205-823-36  
 Query Match 98.4%; Score 1349.5; DB 15; Length 919;  
 Best Local Similarity 99.4%; Pred. No. 7e-142;  
 ; CURRENT APPLICATION NUMBER: US/10/008, 739A  
 ; CURRENT FILING DATE: 2002-04-15  
 ; NUMBER OF SEQ ID NOS: 2  
 ; SOFTWARE: PatentIn version 3.1

Matches	258;	Conservative	0;	Mismatches	0;	Indels	1;	Gaps	1;
Y	2	SHMIEGYECOPFLAVLAEIPGVGCAHGDNQDSFAALLSSNELGEROLVHVKWAK	61						
b	62	SH-1EGYECOPFLAVLAEIPGVGCAHGDNQDSFAALLSSNELGEROLVHVKWAK	720						
b	62	ALPGFRNLHVDDQMANIQYQSMGLMVFAMGRSFTNNSRLYFAPDLVNEYRMKSRM	121						
b	721	ALPGFRNLHVDDQMANIQYQSMGLMVFAMGRSFTNNSRLYFAPDLVNEYRMKSRM	780						
b	122	YSQCVRMRHLSQEGMQLQTQBLCKMALLSFIPVGDGLKNOKEFDELMNYKELDR	181						
b	781	YSQCVRMRHLSQEGMQLQTQBLCKMALLSFIPVGDGLKNOKEFDELMNYKELDR	840						
b	182	ITACKERNPTCSRRPVQLTKLDSVQPIARLHQFTPDLLIKSHMSVDPPEMMALIS	241						
b	841	ITACKERNPTCSRRPVQLTKLDSVQPIARLHQFTPDLLIKSHMSVDPPEMMALIS	900						
b	242	WQVPKLSIGKVPIYFTQ	260						
b	901	WQVPKLSIGKVPIYFTQ	919						
<b>RESULT 5</b>									
IS-03-885-827-1									
Sequence 1; Application US/09885827									
Patent No. US2002017345A1									
GENERAL INFORMATION:									
QY	2	SHMIEGYECOPFLAVLAEIPGVGCAHGDNQDSFAALLSSNELGEROLVHVKWAK	61						
Db	131	SH-1EGYECOPFLAVLAEIPGVGCAHGDNQDSFAALLSSNELGEROLVHVKWAK	189						
QY	62	ALPGFRNLHVDDQMANIQYQSMGLMVFAMGRSFTNNSRLYFAPDLVNEYRMKSRM	121						
Db	190	ALPGFRNLHVDDQMANIQYQSMGLMVFAMGRSFTNNSRLYFAPDLVNEYRMKSRM	249						
QY	122	YSQCVRMRHLSQEGMQLQTQBLCKMALLSFIPVGDGLKNOKEFDELMNYKELDR	156						
Db	250	YSQCVRMRHLSQEGMQLQTQBLCKMALLSFIPVGDGLKNOKEFDELMNYKELDR	284						
<b>RESULT 6</b>									
US-09-97-267-4									
; Sequence 4; Application US/09997267									
; Patent No. US20020163381A1									
GENERAL INFORMATION:									
APPLICANT: AHRENS-FATH, ISABELLE									
APPLICANT: HAENDLER, BERNARD									
TITLE OF INVENTION: HUMAN ANDROGEN RECEPTOR VARIANTS									
FILE REFERENCE: SCH-1793									
CURRENT APPLICATION NUMBER: US/09/97-267									
CURRENT FILING DATE: 2001-11-30									
PRIOR APPLICATION NUMBER: 60/255,078									
PRIOR FILING DATE: 2000-12-14									
NUMBER OF SEQ ID NOS: 15									
SOFTWARE: PatentIn Ver. 2.1									
SEQ ID NO 4									
LENGTH: 294									
TYPE: PRT									
; ORGANISM: Homo sapiens									
US-09-97-267-4									
Query Match	59.3%	Score	813.5;	DB	10;	Length	294;		
Best Local Similarity	99.4%	Pred.	No.	1.5-82;		Indels	1;	Gaps	1;
Matches	154;	Conservative	0;	Mismatches	0;				
SEQ ID NO 1									
SOFTWARE: PatentIn Ver. 2.1									
PRIOR FILING DATE: 2000-06-28									
PRIOR APPLICATION NUMBER: 60/214,392									
NUMBER OF SEQ ID NOS: 2									
SEQ ID NO 1									
TYPE: PRT									
ORGANISM: Homo sapiens									
IS-03-885-827-1									
Query Match	90.7%	Score	1243;	DB	10;	Length	246;		
Best Local Similarity	97.2%	Pred.	No.	8.9e-131;					
Matches	239;	Conservative	0;	Mismatches	7;	Indels	0;	Gaps	0;
SEQ ID NO 1									
SOFTWARE: PatentIn Ver. 2.1									
LENGTH: 246									
TYPE: PRT									
ORGANISM: Homo sapiens									
IS-03-885-827-1									
<b>RESULT 7</b>									
US-10-220-981-3									
; Sequence 3; Application US/10220981									
; Publication No. US2003016799A1									
GENERAL INFORMATION:									
QY	2	SHMIEGYECOPFLAVLAEIPGVGCAHGDNQDSFAALLSSNELGEROLVHVKWAK	61						
Db	131	SH-1EGYECOPFLAVLAEIPGVGCAHGDNQDSFAALLSSNELGEROLVHVKWAK	189						
QY	62	ALPGFRNLHVDDQMANIQYQSMGLMVFAMGRSFTNNSRLYFAPDLVNEYRMKSRM	121						
Db	190	ALPGFRNLHVDDQMANIQYQSMGLMVFAMGRSFTNNSRLYFAPDLVNEYRMKSRM	249						
QY	122	YSQCVRMRHLSQEGMQLQTQBLCKMALLSFIPVGDGLKNOKEFDELMNYKELDR	156						
Db	250	YSQCVRMRHLSQEGMQLQTQBLCKMALLSFIPVGDGLKNOKEFDELMNYKELDR	284						
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US-10-220-981-3									
; Sequence 3; Application US/10220981									
; Publication No. US2003016799A1									
GENERAL INFORMATION:									
APPLICANT: Scherling AG									
APPLICANT: Domer, Peter									
APPLICANT: Egerer, Ursula									
APPLICANT: Carrondo, Maria A									
APPLICANT: Matias, Pedro M									
APPLICANT: Crystal									
FILE REFERENCE: P008463W0 CTH									
CURRENT APPLICATION NUMBER: US/10/220-981									
CURRENT FILING DATE: 2002-09-09									
PRIOR APPLICATION NUMBER: GB 0005669.5									
PRIOR FILING DATE: 2000-03-09									
NUMBER OF SEQ ID NOS: 3									
SOFTWARE: PatentIn Ver. 2.1									
SEQ ID NO 3									
LENGTH: 258									
TYPE: PRT									
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US-10-220-981-3									
Query Match	55.8%	Score	765;	DB	12;	Length	258;		
Best Local Similarity	55.5%	Pred.	No.	3.3e-77;					
Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
SEQ ID NO 3									
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US-10-220-981-3									
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Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
SEQ ID NO 3									
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ORGANISM: Homo sapiens									
US-10-220-981-3									
Query Match	55.8%	Score	765;	DB	12;	Length	258;		
Best Local Similarity	55.5%	Pred.	No.	3.3e-77;					
Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
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US-10-220-981-3									
Query Match	55.8%	Score	765;	DB	12;	Length	258;		
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US-10-220-981-3									
Query Match	55.8%	Score	765;	DB	12;	Length	258;		
Best Local Similarity	55.5%	Pred.	No.	3.3e-77;					
Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
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TYPE: PRT									
ORGANISM: Homo sapiens									
US-10-220-981-3									
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Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
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US-10-220-981-3									
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Best Local Similarity	55.5%	Pred.	No.	3.3e-77;					
Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
SEQ ID NO 3									
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TYPE: PRT									
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US-10-220-981-3									
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Best Local Similarity	55.5%	Pred.	No.	3.3e-77;					
Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
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SOFTWARE: PatentIn Ver. 2.1									
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TYPE: PRT									
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US-10-220-981-3									
Query Match	55.8%	Score	765;	DB	12;	Length	258;		
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LENGTH: 258									
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US-10-220-981-3									
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Matches	137;	Conservative	57;	Mismatches	53;	Indels	0;	Gaps	0;
SEQ ID NO 3									
SOFTWARE: PatentIn Ver. 2.1									
LENGTH: 258									
TYPE: PRT									
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US-10-220-981-3									
Query Match	55.8%	Score	765;	DB	12;	Length	258;		
Best Local Similarity									

70 DDDITLQISWMSMIVPGKAWRSYKAVSQMLNAPDILNEDQKRSFSYKLCITM01 129  
; SOFTWARE: PatentIn version 3.0  
; SEQ\_ID NO: 129  
; LENGTH: 933  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-207-655-63

Query Match 55.8%; Score 765; DB 15; Length 933;  
Best Local Similarity 55.5%; Pred. No. 2.1e-16; Mismatches 53; Indels 0; Gaps 0;  
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RESULT 8  
US-09-887-280-4  
; Sequence 4, Application US/09887280  
; GENERAL INFORMATION:  
; APPLICANT: PRICE, THOMAS M.  
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROGESTERONE RECEPTOR  
; FILE REFERENCE: GHS-338  
; CURRENT APPLICATION NUMBER: US/09/887,280  
; CURRENT FILING DATE: 2001-09-17  
; PRIORITY APPLICATION NUMBER: 60/213,340  
; PRIORITY FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 314  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-887-280-4

Query Match 55.8%; Score 765; DB 10; Length 314;  
Best Local Similarity 55.5%; Pred. No. 4.4e-77; Mismatches 53; Indels 0; Gaps 0;  
Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

QY 12 PIFLNUVRAIEPGVCAHGDNQDSDFAALISLNLGEROLVAVKRAKALPGFRNHLV 71  
Db 66 PPLINLMSIEPDVYAGHDNKTDTSSLLSISLNQGERQQLSVVKNSKSLGFRNHLI 125  
QY 72 DDDOMAVIOYSWMGLMVFAMGWSRSEFTNNSRMLYFADLVENEVYRMHSRMSYOCVRMHL 131  
Db 126 DDQITLQIYSWMSLIVFGLGRWSYKHSQMLYFADPLINEOKMSKSSPSYCLTM01 185  
QY 132 SQRGWLQQTQPERLICMKALLFSITIPDGLKNGKFDSLRLNVIKEDRIACKR0T 191  
Db 186 PQERTKQIQLQSQBERTLCKMQLLQIPTPLGRLSQTPEEMRSYIRELIKAGRKGV 245  
QY 192 SCSPRYQYQTKLUSVQPTARELQFTDILKHSRNSVTPPEMMAEISVQVKL0GK 251  
Db 246 SSSORFYQYQTKLUDNLHDLVQLHNYCMLNFIQSRALSTFPEMMAEISVQVKL0GK 305  
QY 252 VKP1YFH 258  
Db 306 VKPL1FH 312

RESULT 9  
US-10-207-655-63  
; Sequence 63, Application US/10207655  
; Publication No. US20030118592A1  
; GENERAL INFORMATION:  
; APPLICANT: Ledbetter, Jeffrey A.  
; TITLE OF INVENTION: BINDING DOMAIN IMMUNOGLOBULIN FUSION PROTEINS  
; FILE REFERENCE: 39069-401C1  
; CURRENT APPLICATION NUMBER: US/10/207,655  
; CURRENT FILING DATE: 2003-07-25  
; NUMBER OF SEQ ID NOS: 426

Query Match 53.1%; Score 728; DB 10; Length 240;  
Best Local Similarity 55.3%; Pred. No. 4.1e-73; Mismatches 51; Indels 0; Gaps 0;  
Matches 131; Conservative 55; Mismatches 51; Indels 0; Gaps 0;

QY 12 PIFLNUVRAIEPGVCAHGDNQDSDFAALISLNLGEROLVAVKRAKALPGFRNHLV 71  
Db 4 PPLINLMSIEPDVYAGHDNKTDTSSLLSISLNQGERQQLSVVKNSKSLGFRNHLI 63  
QY 72 DDDOMAVIOYSWMGLMVFAMGWSRSEFTNNSRMLYFADLVENEVYRMHSRMSYOCVRMHL 131  
Db 64 DDQITLQIYSWMSLIVFGLGRWSYKHSQMLYFADPLINEOKMSKSSPSYCLTM01 123  
QY 132 SQRGWLQQTQPERLICMKALLFSITIPDGLKNGKFDSLRLNVIKEDRIACKR0T 191  
Db 124 PQERTKQIQLQSQBERTLCKMQLLQIPTPLGRLSQTPEEMRSYIRELIKAGRKGV 183  
QY 192 SCSPRYQYQTKLUSVQPTARELQFTDILKHSRNSVTPPEMMAEISVQVKL0GK 248  
Db 184 SSSORFYQYQTKLUDNLHDLVQLHNYCMLNFIQSRALSTFPEMMAEISVQVKL0GK 240

RESULT 11  
 US-09-905-176-11  
 ; Sequence 11, Application US/0905176  
 ; Patent No. US20020150906A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CALIFORNIA INSTITUTE OF TECHNOLOGY  
 ; APPLICANT: Debe, Derek A.  
 ; TITLE OF INVENTION: METHOD FOR DETERMINING THREE-DIMENSIONAL PROTEIN STRUCTURE FROM FILE REFERENCE: 265/297  
 ; CURRENT APPLICATION NUMBER: US/09/905,176  
 ; CURRENT FILING DATE: 2002-04-05  
 ; PRIOR APPLICATION NUMBER: US 60/218,016  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 11  
 ; LENGTH: 215  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-905-176-11

Query Match 48.6%; Score 666; DB 10; Length 215;  
 Best Local Similarity 55.6%; Pred. No. 3.1e-66;  
 Matches 119; Conservative 50; Mismatches 45; Indels 0; Gaps 0;

Qy 28 AGHDNNQDPSAALSSLINEGEROLVHVKAKALPGFRNHLVDDOMAVIQYSWMLMV 87  
 Db 1 AGHDNNQDPSAALSSLINEGEROLVHVKAKALPGFRNHLVDDOMAVIQYSWMLMV 60

Qy 88 PAMGWSFTNNSRMLYAPDLYFENYRMMHKSMSQCVRMRHSQBCFGWLTQTPROFLC 147  
 Db 61 FGGLGRSYKAVGQMSQYFADPLILNFORMKESFSFISLCLTWQIQFBFVQLQVSQBFCLC 120

Qy 148 MKAALIFSTIPDGLKNOKEFDELRYNIKELDRITACKRKNPSCSRREYQTLKLDLV 207  
 Db 121 MKVLLNLTIPDGLKNOKEFDELRYNIKELDRITACKRKNPSCSRREYQTLKLDLV 180

Qy 208 QPARIABLHQFTFDLJTKSHMSVDPREMMABIS 241  
 Db 181 HDLVKQHLQHCLNTFQSRALSVVERPEMMABIS 214

RESULT 12  
 US-10-153-668-226  
 ; Sequence 226, Application US/10153668  
 ; Publication No. US2003009216A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HONDA, Goichi  
 ; APPLICANT: MATSUDA, Akio  
 ; APPLICANT: MURAMATSU, Shuji  
 ; APPLICANT: ISHIZAWA, Kenya  
 ; TITLE OF INVENTION: STAT5 Activating Gene FILE REFERENCE: 1254-0207P  
 ; CURRENT APPLICATION NUMBER: US/10/153,668  
 ; CURRENT FILING DATE: 2002-05-24  
 ; PRIOR APPLICATION NUMBER: US 60/293,172  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/316,031  
 ; PRIOR FILING DATE: 2001-08-31  
 ; PRIOR APPLICATION NUMBER: US 60/328,403  
 ; PRIOR FILING DATE: 2001-10-12  
 ; PRIOR APPLICATION NUMBER: JP 2001-157043  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: JP 2001-260681  
 ; PRIOR FILING DATE: 2001-08-30  
 ; PRIOR APPLICATION NUMBER: JP 2001-313175  
 ; PRIOR FILING DATE: 2001-10-10  
 ; NUMBER OF SEQ ID NOS: 488  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 226

Query Match 48.3%; Score 662; DB 15; Length 689;  
 Best Local Similarity 47.5%; Pred. No. 4.7e-65;  
 Matches 121; Conservative 59; Mismatches 75; Indels 0; Gaps 0;

Qy 4 MERGYEQQPIFANVLEIAEPGVCAHHDDNQDPSAALSSLINEGEROLVHVKAKAL 63  
 Db 433 MYRLQFMPQQLSILENIEPEPVYQSGDATOPETPHLNLNSLNGCEROLVHVKAKAL 63

Qy 64 POFRNHLVDDOMAVIQYSWMLMVAMGWSFTNNSRMLYAPDLYFENYRMMHKSMS 123  
 Db 493 POFRLSLHNDPQTLQYSWMSLWMSLWMSLWMSLWMSLWMSLWMSLWMSLWMSLW 552

Qy 124 QCVRMHLSQBGWLTQTPROFLCMLALFSLIPDGLKNOKEFDELRYNIKELDRIT 183  
 Db 553 LCMAMOLIPPAEDNLQVTKESFLCMVLLNLTIPDGLKNOKEFDELRYNIKELDRIT 612

Qy 184 ACKRKNPSTCERRFVQTLKLDVSQPTARLHQFTFDLJTKSHMSVDPREMMABIS 243

RESULT 14  
 US-10-001-486B-2  
 ; Sequence 2, Application US/10001486B  
 ; Sequence No. US20030082642A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: The Government of the United States of America  
 ; as represented by the Secretary  
 ; Department of Health and Human Services  
 ; Washington, D.C.  
 ; Htun, Ph.D., Han  
 ; Hager, Ph.D., Gordon L.  
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MONITORING  
 ; NUMBER OF SEQUENCES: 9  
 ; DNA BINDING MOLECULES IN LIVING CELLS  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: NEEDLE & Rosenberg  
 ; STREET: 127 Peachtree Street, Suite 1200  
 ; CITY: Atlanta  
 ; STATE: Georgia  
 ; COUNTRY: USA  
 ; ZIP: 30303  
 ; COMPUTER READABLE FORM:  
 ; COMPUTER TYPE: Floppy disk  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/001,486B  
 ; FILING DATE: 15-NO- US20030082642A1-2001  
 ; CLASSIFICATION: <Unknown>  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/008,373  
 ; FILING DATE: 08 Dec 1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Selby, Elizabeth  
 ; REGISTRATION NUMBER: 38288  
 ; REFERENCE/DOCKET NUMBER: 14014.0183  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 404-688-0770  
 ; TELEFAX: 404-688-9880  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1070 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 ; US-10-001-486B-2

Query Match 46.6%; Score 639.5; DB 15; Length 1070;  
 Best Local Similarity 49.4%; Pid. No. 3e-62; Mismatches 122; Conservative 48; Mismatches 76; Indels 1; Gaps 1;

Qy 12 PFLAVLAEATPFGVVCAGHNNQNPSPFAALISLNEIGERQVHVKAKALPERNIAV 71  
 Db 823 PTLVSLLEVTPRBPVLYAGYDSSVPDSAWRTMTTMLGGRQVIAAVKWAIGLNLH 882

Qy 72 DDQMAVQSYWGMVPMGKRSFTVNSRMRMYPADLVEVYRHKRSRMSQCVRMRHL 131  
 Db 883 DDQWTLQSYWGMVPLMFAFGRSYRSGNSQMLPAPLILNEQRLSPMTDQCKHMLV 942

Qy 132 SOEGWQIQTPOFLCKALIFPSITPVGDKNQKPFDRMRNMYKEDRITACKRNP 191  
 Db 943 SSELQLQVSYEYLCKMLLSSVFKEGLKQSLSFDEIRTYKELGKAVREGNS 1002

Qy 192 SCRRFVQTKLUDSVPLARELHQFLDJKSHMSVDFEMMARIISVOPKLSK 251  
 Db 217 QNMRFVQTKLUDSMHEVENVILTYCQFELDKM-SIEPEMLABITNOIPKSYNG 275

Qy 252 VKGIVFH 288  
 Db 276 IKCLFH 282

Search completed: October 9, 2003, 11:43:39  
 Job time : 28 secs

RESULT 15  
 US-09-687-450-20  
 ; Sequence 20, Application US/09853450  
 ; Publication No. US20020194642A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yanofsky, Martin F.  
 ; APPLICANT: Pelaz, Soraya  
 ; APPLICANT: Ditta, Gary  
 ; APPLICANT: The Regents of the University of California  
 ; TITLE OF INVENTION: Combinations of Genes for Producing Seed Plants  
 ; FILE REFERENCE: 19452A-002400US  
 ; CURRENT APPLICATION NUMBER: US/09/853,450  
 ; CURRENT FILING DATE: 2001-05-09  
 ; NUMBER OF SEQ ID NOS: 61  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 20  
 ; LENGTH: 284  
 ; TYPE: PRT  
 ; ORGANISM: Rattus norvegicus  
 ; OTHER INFORMATION: rat glucocorticoid receptor ligand binding domain  
 ; US-09-853-450-20

Query Match 46.0%; Score 630.5; DB 10; Length 284;  
 Best Local Similarity 49.0%; Pid. No. 4.4e-62; Mismatches 121; Conservative 48; Mismatches 77; Indels 1; Gaps 1;

Qy 12 PFLAVLAEATPFGVVCAGHNNQNPSPFAALISLNEIGERQVHVKAKALPERNIAV 71  
 Db 37 PTAVSLLEVTPRBPVLYAGYDSSVPDSAWRTMTTMLGGRQVIAAVKWAIGLNLH 96

Qy 72 DDQMAVQSYWGMVPMGKRSFTVNSRMRMYPADLVEVYRHKRSRMSQCVRMRHL 131  
 Db 97 DDQWTLQSYWGMVPLMFAFGRSYRSGNSQMLPAPLILNEQRLSPMTDQCKHMLV 156

Qy 132 SOEGWQIQTPOFLCKALIFPSITPVGDKNQKPFDRMRNMYKEDRITACKRNP 191  
 Db 157 SSELQLQVSYEYLCKMLLSSVFKEGLKQSLSFDEIRTYKELGKAVREGNS 216

Qy 192 SCRRFVQTKLUDSVPLARELHQFLDJKSHMSVDFEMMARIISVOPKLSK 251  
 Db 217 QNMRFVQTKLUDSMHEVENVILTYCQFELDKM-SIEPEMLABITNOIPKSYNG 275

Qy 252 VKGIVFH 288  
 Db 276 IKCLFH 282

Db 1003 QNMRFVQTKLUDSMHEVENVILTYCQFELDKM-SIEPEMLABITNOIPKSYNG 1061  
 Qy 252 VKGIVFH 258  
 Db 1052 IKCLFH 1068

GenCore version 5.1.6  
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Om protein - protein search, using sw model

Run on: October 9, 2003, 11:39:53 ; Search time 19 Seconds

Sequence: 1 GSHMIEGTYGCQPIFLNVEA..... SVQVPKISLGKVVKPIYFHQ 260

Title: Perfect score: 1371

Sequence: US-09-687-609A-1

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/l/iaa/5A\_COMB.pep:\*

2: /cgn2\_6/ptodata/l/iaa/5B\_COMB.pep:\*

3: /cgn2\_6/ptodata/l/iaa/6A\_COMB.pep:\*

4: /cgn2\_6/ptodata/l/iaa/6B\_COMB.pep:\*

5: /cgn2\_6/ptodata/l/iaa/PC1US\_COMB.pep:\*

6: /cgn2\_6/ptodata/l/iaa/backfilesl.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No. Query

No. Score

Match Length

DB ID

Description

Result No.	Score	Match Length	DB ID	Description
1	1349.5	98.4	452	3 US-08-764-870-16
2	1449.5	98.4	452	3 US-08-980-115-16
3	1449.5	98.4	918	3 US-09-041-886-11
4	766	55.9	363	6 5223606-6
5	765	55.8	933	3 US-08-764-870-14
6	765	55.8	933	3 US-08-980-115-14
7	665	48.5	984	3 US-08-764-870-15
8	665	48.5	984	3 US-08-980-115-15
9	662.5	48.3	777	3 US-08-764-870-13
10	652.5	48.3	777	3 US-08-980-115-13
11	644.5	46.7	534	3 US-08-875-223-8
12	639.5	46.6	1070	4 US-09-091-042-2
13	638.5	46.6	284	2 US-08-592-214A-24
14	638.5	46.6	284	3 US-09-142-971-24
15	638.5	46.6	795	1 US-07-716-821C-5
16	630.5	46.0	284	3 US-08-659-18-20
17	630.5	46.0	284	3 US-08-659-227-20
18	630.5	46.0	284	3 US-08-659-241-20
19	630.5	46.0	284	4 US-09-398-326-20
20	626	45.7	356	6 5223606-7
21	224	16.3	60	5 PCT-US94-14074-1
22	211.5	15.4	596	2 US-08-836-620A-16
23	209	15.2	460	4 US-09-393-839-4
24	207.5	15.1	595	3 US-08-764-870-12
25	207.5	15.1	595	3 US-08-980-115-12
26	206.5	15.1	484	2 US-08-836-620A-13
27	206.5	15.1	485	2 US-08-836-620A-2

#### ALIGNMENTS

RESULT 1	US-08-764-870-15
;	Sequence 16, Appl
;	Sequence 16, Appl
;	Patent No. 6236946
;	GENERAL INFORMATION:
;	APPLICANT: Scanlan, Thomas S
;	APPLICANT: Flitterick, Robert J
;	APPLICANT: Wagner, Richard L
;	APPLICANT: Kushner, Peter J
;	APPLICANT: Apriletti, James W
;	APPLICANT: West, Brian
;	TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
;	NUMBER OF SEQUENCES: 16
;	CORRESPONDENCE ADDRESS:
;	ADDRESSEE: Cooley Godward
;	STREET: Five Palo Alto square, 3000 El Camino Real
;	CITY: Palo Alto
;	STATE: CA
;	COUNTRY: USA
;	ZIP: 94306
;	COMPUTER READABLE FORM:
;	MEDIUM TYPE: FLOPPY disk
;	COMPUTER: IBM PC compatible
;	OPERATING SYSTEM: PC-DOS/MS-DOS
;	SOFTWARE: Patentin Release #1.0, Version #1.30
;	CURRENT APPLICATION DATA:
;	APPLICATION NUMBER: US-08/764,870
;	FILING DATE: 13-DEC-1996
;	CLASSIFICATION: 530
;	PRIOR APPLICATION DATA:
;	APPLICATION NUMBER: US 6/0/008,540
;	FILING DATE: 13-DEC-1995
;	PRIOR APPLICATION DATA:
;	APPLICATION NUMBER: US 6/0/008,543
;	FILING DATE: 13-DEC-1995
;	PRIOR APPLICATION DATA:
;	APPLICATION NUMBER: US 6/0/008,606
;	FILING DATE: 14-DEC-1995
;	ATTORNEY/AGENT INFORMATION:
;	NAME: Nakamura, Jackie N
;	REGISTRATION NUMBER: 35,966
;	REGISTRATION/DOCKET NUMBER: UCAL-246/01US
;	TELECOMMUNICATION INFORMATION:
;	TELEPHONE: (650)843-5000
;	INFORMATION FOR SEQ ID NO: 16:
;	SEQUENCE CHARACTERISTICS:
;	LENGTH: 452 amino acids
;	TYPE: amino acid

;

;

STRANDBEDNESS:

;

TOPOLOGY: linear

;

MOLCULE TYPE: protein

;

US-08-764-870-16

Query Match 98.4%; Score 1349.5; DB 3; Length 452; Best Local Similarity 99.6%; Pred. No. 9.1e-147; Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 2 SHMIEGEGYCQPIFLNLVLAIEPGVVCAGHDNNQDPSFAALLSSNLNEGERQLHVVKWAK 61

Db 195 SH-IEGYEQCPIFLNLVLAIEPGVVCAGHDNNQDPSFAALLSSNLNEGERQLHVVKWAK 253

Qy 62 ALPGFRNLHVDDOMAVIQLQYSGMLVFMGMRSPFTVNSRMLYFAPDLYNEYRMKSRM 121

Db 254 ALPGFRNLHVDDOMAVIQLQYSGMLVFMGMRSPFTVNSRMLYFAPDLYNEYRMKSRM 313

Qy 122 YSQCVRMRHSOFGMLQITQBLCKMALLPSIIPDGLKKNQKFPELRLMYIKELDR 181

Db 314 YSQCVRMRHSOFGMLQITQBLCKMALLPSIIPDGLKKNQKFPELRLMYIKELDR 373

Qy 182 IACKRKNPTSCSRPFQIQLKLDSTQPIARBLRQPTPLDILKSHMSVDPPEMMAETIS 241

Db 374 IACKRKNPTSCSRPFQIQLKLDSTQPIARBLRQPTPLDILKSHMSVDPPEMMAETIS 433

Qy 242 VQVKILSGKVVKPPIYHTQ 260

Db 434 VQVKILSGKVVKPPIYHTQ 452

RESULT 2

US-08-980-115-16

;

Sequence 16, Application US/08980115

;

Patent No. 6226622

;

GENERAL INFORMATION:

;

APPLICANT: Scanlan, Thomas S.

;

APPLICANT: Baxter, John D.

;

APPLICANT: Flatterick, Robert J.

;

APPLICANT: Kushner, Peter J.

;

APPLICANT: Apriletti, James W.

;

APPLICANT: West, Brian L.

;

APPLICANT: Shiu, Andrew K.

;

TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS

;

FILE REFERENCE: UCAL-246702US

;

CURRENT APPLICATION NUMBER: US/08/980,115

;

EARLIER FILING DATE: 1997-11-26

;

EARLIER APPLICATION NUMBER: 08/764,870

;

EARLIER FILING DATE: 1996-12-13

;

EARLIER APPLICATION NUMBER: 60/008,606

;

EARLIER FILING DATE: 1995-12-14

;

EARLIER APPLICATION NUMBER: 60/008,543

;

EARLIER FILING DATE: 1995-12-13

;

EARLIER APPLICATION NUMBER: 60/008,540

;

NUMBER OF SEQ ID NO: 17

;

SOFTWARE: PatentIn Ver. 2.0

;

SRO ID NO: 16

;

LENGTH: 452

;

TYPE: PRT

;

ORGANISM: Homo sapiens

;

FEATURE: DOMAIN

;

NAME/KEY: (43)

;

LOCATION: (184)...

;

OTHER INFORMATION: minimal ligand binding domain

;

US-08-980-115-16

Query Match 98.4%; Score 1349.5; DB 3; Length 918; Best Local Similarity 99.6%; Pred. No. 2.6e-146; Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 2 SHMIEGEGYCQPIFLNLVLAIEPGVVCAGHDNNQDPSFAALLSSNLNEGERQLHVVKWAK 61

Db 661 SH-IEGYEQCPIFLNLVLAIEPGVVCAGHDNNQDPSFAALLSSNLNEGERQLHVVKWAK 719

Qy 62 ALPGFRNLHVDDOMAVIQLQYSGMLVFMGMRSPFTVNSRMLYFAPDLYNEYRMKSRM 121

Db 720 ALPGFRNLHVDDOMAVIQLQYSGMLVFMGMRSPFTVNSRMLYFAPDLYNEYRMKSRM 779

Qy 2 SHMIEGEGYCQPIFLNLVLAIEPGVVCAGHDNNQDPSFAALLSSNLNEGERQLHVVKWAK 61

Db 434 YSQCVRMRHSOFGMLQITQBLCKMALLPSIIPDGLKKNQKFPELRLMYIKELDR 181

RESULT 3

US-09-041-886-11

;

Sequence 11, Application US/09041886

;

Patent No. 6235872

;

GENERAL INFORMATION:

;

APPLICANT: Bredesen, Dale E.

;

APPLICANT: Rabizadeh, Sharroz

;

TITLE OF INVENTION: Protoprotic Peptides, Dependence

;

TITLE OF INVENTION: Polypeptides and Methods of Use

;

NUMBER OF SEQUENCES: 72

;

CORRESPONDENCE ADDRESS:

;

ADDRESSEE: Campbell & Flores LLP

;

STREET: 4370 La Jolla Village Drive, Suite 700

;

CITY: San Diego

;

STATE: California

;

ZIP: 92122

;

COMPUTER READABLE FORM:

;

MEDIUM/TYPE: Floppy disk

;

COMPUTER: IBM PC compatible

;

OPERATING SYSTEM: PC-DOS/MS-DOS

;

REFERENCE/DOCKET NUMBER: P-LJ 2626

;

CURRENT APPLICATION DATA:

;

APPLICATION NUMBER: US/09/041,886

;

FILING DATE:

;

CLASSIFICATION:

;

ATTORNEY/AGENT INFORMATION:

;

NAME: Campbell, Kathryn A.

;

REGISTRATION NUMBER: 31,815

;

REFERENCE/DOCKET NUMBER: P-LJ 2626

;

TELECOMMUNICATION INFORMATION:

;

TELEPHONE: (619) 535-9001

;

TELEFAX: (619) 535-9499

;

INFORMATION FOR SEQ ID NO: 11:

;

SEQUENCE CHARACTERISTICS:

;

LENGTH: 918 amino acids

;

TYPE: amino acid

;

TOPOLOGY: linear

;

MOLECULE TYPE: protein

;

US-09-041-886-11

RESULT 4  
 5223606-6  
 ; Patent No. 5223606.  
 ; APPLICANT: BLAUDIN DE THE, HUGHES; MARCHIO, AGNES; TIOLAIS,  
 ; PIERRE; DEJEAN, ANNE.  
 ; TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED  
 ; PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA  
 ; NUMBER OF SEQUENCES: 11  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/1134, 130  
 ; FILING DATE: 17-DEC-1987  
 ; PRIORITY APPLICATION DATA:  
 ; SEQ ID NO: 6:  
 ; LENGTH: 363  
 ; 5223606-6

Query Match 55.9%; Score 766; DB 6; Length 363;  
 Best Local Similarity 55.5%; Pred. No. 1.1e-79; Mismatches 57; Indels 0; Gaps 0;  
 Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;  
 Qy 12 PIRFLAVLEAIEPGVCAHGHDNNQDPSFAALLSSNLNLGRQVHVVKWAKALPGRFHVV 71  
 Db 115 PPLINLMSIISPDVYAGHDNTKPDISSSLTISNLQGRQLLSSVVKNSKSLPGFRNHLI 174  
 Qy 72 DDMAVQYSSWGMVRANGWRSRSTNNRMMYFAPDLYFADLVEYRMEKSRMYSQVNRHL 131  
 Db 175 DQDITLQYSWMSLAVFGLGRVRSYKHSQMLYFADLVEYRMEKSRMYSQVNRHLI 234  
 Qy 132 SQBGMQLQTPOBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 191  
 Db 235 PQRVKLQVSOPBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 294  
 Qy 192 SCERRFYQLTQLDSSVQPTARELHQFTDILKSHMVSDFPENMAETISVQVKILSGK 251  
 Db 295 SSSORFYQLTQLDNLHDLVKQHLYCINTPISRALSEVFPEMSEVIAQLPKILAGM 354  
 Qy 252 VKLQYFH 258  
 Db 355 VKLQYFH 361  
 ; RESULT 5  
 ; US-08-764-870-14  
 ; Sequence 14, Application US/08764870  
 ; Patent No. 6226946  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Scanlan, Thomas S  
 ; APPLICANT: Baxter, John D  
 ; APPLICANT: Fletterick, Robert J  
 ; APPLICANT: Wagner, Richard L  
 ; APPLICANT: Kushner, Peter J  
 ; APPLICANT: Apriletti, James W  
 ; APPLICANT: Wet, Brian  
 ; TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand  
 ; NUMBER OF SEQUENCES: 16  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESS: Cooley Godward  
 ; STREET: Five Palo Alto Square, 3000 El Camino Real  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; SEQ ID NO: 6:  
 ; LENGTH: 363  
 ; 5223606-6

Query Match 55.9%; Score 765; DB 6; Length 363;  
 Best Local Similarity 55.5%; Pred. No. 1.1e-79; Mismatches 57; Indels 0; Gaps 0;  
 Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;  
 Qy 12 PIRFLAVLEAIEPGVCAHGHDNNQDPSFAALLSSNLNLGRQVHVVKWAKALPGRFHVV 71  
 Db 175 DQDITLQYSWMSLAVFGLGRVRSYKHSQMLYFADLVEYRMEKSRMYSQVNRHLI 234  
 Qy 72 DDMAVQYSSWGMVRANGWRSRSTNNRMMYFAPDLYFADLVEYRMEKSRMYSQVNRHL 131  
 Db 685 PPLINLMSIISPDVYAGHDNTKPDISSSLTISNLQGRQLLSSVVKNSKSLPGFRNHLI 744  
 Qy 132 SQBGMQLQTPOBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 191  
 Db 745 DQDITLQYSWMSLAVFGLGRVRSYKHSQMLYFADLVEYRMEKSRMYSQVNRHLI 804  
 Qy 132 SQBGMQLQTPOBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 191  
 Db 805 PQRVKLQVSOPBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 294  
 Qy 192 SCERRFYQLTQLDSSVQPTARELHQFTDILKSHMVSDFPENMAETISVQVKILSGK 251  
 Db 865 SSSORFYQLTQLDNLHDLVKQHLYCINTPISRALSEVFPEMSEVIAQLPKILAGM 924  
 Qy 252 VKLQYFH 258  
 Db 925 VKLQYFH 931  
 ; RESULT 6  
 ; US-08-980-115-14  
 ; Sequence 14, Application US/08980115  
 ; Patent No. 6226946  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Scanlan, Thomas S.  
 ; APPLICANT: Baxter, John D.  
 ; APPLICANT: Fletterick, Robert J.  
 ; APPLICANT: Wagner, Richard L.  
 ; APPLICANT: Kushner, Peter J.  
 ; APPLICANT: Apriletti, James W.  
 ; APPLICANT: Wet, Brian L.  
 ; APPLICANT: Shiu, Andrew K.

COUNTRY: USA  
 ZIP: 94306  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/764, 870  
 FILING DATE: 13-DEC-1996  
 CLASSIFICATION: 530  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008, 540  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008, 543  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008, 606  
 FILING DATE: 14-DEC-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Nakamura, Jackie N  
 REGISTRATION NUMBER: 35, 966  
 REFERENCE/DOCKET NUMBER: UCAL-246/01US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650)843-5000  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 933 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-764-870-14

Query Match 55.9%; Score 765; DB 3; Length 933;  
 Best Local Similarity 55.5%; Pred. No. 5.6e-79; Mismatches 57; Indels 0; Gaps 0;  
 Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;  
 Qy 12 PIRFLAVLEAIEPGVCAHGHDNNQDPSFAALLSSNLNLGRQVHVVKWAKALPGRFHVV 71  
 Db 175 DQDITLQYSWMSLAVFGLGRVRSYKHSQMLYFADLVEYRMEKSRMYSQVNRHLI 744  
 Qy 72 DDMAVQYSSWGMVRANGWRSRSTNNRMMYFAPDLYFADLVEYRMEKSRMYSQVNRHL 131  
 Db 685 PPLINLMSIISPDVYAGHDNTKPDISSSLTISNLQGRQLLSSVVKNSKSLPGFRNHLI 804  
 Qy 132 SQBGMQLQTPOBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 191  
 Db 805 PQRVKLQVSOPBLCKMKALLFLSITPVGDKNQKFDELBRNMYKEADRITACKRQPT 294  
 Qy 192 SCERRFYQLTQLDSSVQPTARELHQFTDILKSHMVSDFPENMAETISVQVKILSGK 251  
 Db 865 SSSORFYQLTQLDNLHDLVKQHLYCINTPISRALSEVFPEMSEVIAQLPKILAGM 924  
 Qy 252 VKLQYFH 258  
 Db 925 VKLQYFH 931

; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS  
 ; FILE REFERENCE: UCAL-246/02US  
 ; CURRENT APPLICATION NUMBER: US/08/980,115  
 ; CURRENT FILING DATE: 1997-11-26  
 ; EARLIER APPLICATION NUMBER: 08/764,870  
 ; EARLIER FILING DATE: 1995-12-13  
 ; EARLIER FILING DATE: 1995-12-14  
 ; EARLIER APPLICATION NUMBER: 60/008,543  
 ; EARLIER FILING DATE: 1995-12-13  
 ; EARLIER APPLICATION NUMBER: 60/008,540  
 ; EARLIER FILING DATE: 1995-12-13  
 ; NUMBER OF SEQ ID NOS: 17  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 14  
 ; LENGTH: 933  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; LOCATION: (659)..(18)  
 ; OTHER INFORMATION: minimal ligand binding domain  
 ; US-08-980-115-14

Query Match 55.8%; Score 765; DB 3; Length 933;  
 Best Local Similarity 55.5%; Pred. No. 56-79; Mismatches 53; Indels 0; Gaps 0;  
 Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

Oy 12 PIFAVNLVBLAIEPGVCAKGHDNNOPDSFAALLSLNLGGEROLVHVVKWAKALPGFRNHLV 71  
 Db 685 PFLINLMSIEPDVYAGHDNNOPDSFAALLSLNLGGEROLVHVVKWAKALPGFRNHLI 744

Oy 72 DPDQAVIQYSWGMMPAMGWRSTINNSRMVYFADLVRNEYRMEKRSMSQCVRMHQS 131  
 Db 745 DDOITLQTSWMSLMVPGLWRSYKHSQVMSQCVRMHQSPPSLCTWQI 804

Oy 132 S0BQGWLQTPBLCKMALLFSLIPVGLKRNKFBLRNIKELDRITACKRPT 191  
 Db 805 PQBVKLQVQSEELQKMLVLLNLTIPBLGRSQTOFEMRSVIRELKAGLQRKQWV 864

Oy 192 SCSRRFYQVLTKLUDSVQPIARELHOFTPDLIKSHMVSUDPENMABRISVQPKLISGK 251  
 Db 865 SSSRFPQVLTKLUDNLHDLVQQLYCLNTFPIOSRALSVFPEMSEVIAQDPLKLM 924

Oy 252 VPKPYFH 258  
 Db 925 VKPLIFH 931

RESULT 7

US-08-764-870-15

Sequence 15, Application US/08764870  
 ; Patent No. 6236946  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Scalan, Thomas S  
 ; APPLICANT: Baxter, John D  
 ; APPLICANT: Pletterick, Robert J  
 ; APPLICANT: Wagner, Richard L  
 ; APPLICANT: Kushner, Peter J  
 ; APPLICANT: Aprilletti, James W  
 ; APPLICANT: West, Brian  
 ; TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand  
 ; NUMBER OF SEQUNECES: 16  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSE: Cooley Godward  
 ; STREET: Five Palo Alto Square, 3000 El Camino Real  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 93006  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk

RESULT 8

US-08-980-115-15

Sequence 15, Application US/08980115  
 ; Patent No. 6266622  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Scalan, Thomas S  
 ; APPLICANT: Baxter, John D  
 ; APPLICANT: Pletterick, Robert J  
 ; APPLICANT: Wagner, Richard L  
 ; APPLICANT: Kushner, Peter J  
 ; APPLICANT: Aprilletti, James W  
 ; APPLICANT: West, Brian L  
 ; APPLICANT: Shiu, Andrew K  
 ; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS  
 ; CURRENT APPLICATION NUMBER: US/08/980,115  
 ; CURRENT FILING DATE: 1997-11-26

COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/764,870  
 FILING DATE: 13-DEC-1996  
 CLASSIFICATION: 530  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,540  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,543  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,546  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,606  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,606  
 FILING DATE: 14-DEC-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Nakamura, Jackie N  
 REGISTRATION NUMBER: 35,966  
 REFERENCE/DOCKET NUMBER: UCAL-246/01US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 1650 843-5000  
 INFORMATION FOR SEQ ID NO: 15:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 984 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-764-870-15

Query Match 48.5%; Score 665; DB 3; Length 984;  
 Best Local Similarity 52.9%; Pred. No. 28-67; Mismatches 70; Indels 0; Gaps 0;  
 Matches 128; Conservative 44; Mismatches 70; Indels 0; Gaps 0;

Oy 17 VLAIRPQGVWAGHDNNOPDSFAALLSLNLGGEROLVHVVKWAKALPGFRNHLV 76  
 Db 741 VLIENTEPVEIVAGYDSDPFLKMLVLLNLTIPBLGRSQTOFEMRSVIRELKAGLQRKQWV 800

Oy 77 VIQYSWGMMPAMGWRSTINNSRMVYFADLVRNEYRMEKRSMSQCVRMHQS 136  
 Db 801 LIQYSMNLSSPALSRSYKHTNSOFLYFADLVLVNEKOMQSAMYELCOHNOHQISLQFV 860

Oy 137 WQITQOBFLCKMALLFSLIPVGLKRNKFBLRNIKELDRITACKRKNPSCRR 196  
 Db 861 RQLTQFRTYTMKVLLSITPDKLKSQAAPENRTYKELRQVNTKCPANSGSWQR 920

Oy 197 FYQLTKLUDSVQPIARELHOFTPDLIKSHMVSUDPENMABRISVQPKLISGK 256  
 Db 921 FYQLTKLUDSMHDLSLSPCPYTFRESHALKVERPAMLVEISDQLPKVESGNKPLY 980

Oy 257 FH 258  
 Db 981 FH 982

EARLIER APPLICATION NUMBER: 08/764,870  
 EARLIER FILING DATE: 1996-12-13  
 EARLIER APPLICATION NUMBER: 60/008,606  
 EARLIER FILING DATE: 1995-12-14  
 EARLIER APPLICATION NUMBER: 60/008,543  
 EARLIER FILING DATE: 1995-12-13  
 EARLIER APPLICATION NUMBER: 60/008,540  
 EARLIER FILING DATE: 1995-12-13  
 NUMBER OF SEQ ID NOS: 17  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO 15  
 LENGTH: 984  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: DOMAIN  
 LOCATION: (695)..(969)  
 OTHER INFORMATION: minimal ligand binding domain  
 US-08-980-115-15

Query Match Best Local Similarity 48.5%; Score 665; DB 3; Length 984; Matches 128; Conservative 44; Mismatches 70; Indels 0; Gaps 0;

Qy 17 VIEATEPGVUCAGHDNNQDPSFAAJSLSNEGEROLVHVKWAGLPGFMRNHRDDOMA 756  
 Db 741 VLENTEPEPVIVGPGDSSKPDTPAENLJSTLRLAGKOMIOVVKWAKVLPSPKFLNPLEDOTT 800

Qy 77 VIQSYWMGLMVFFAMGRSFTVNSRMLYFADLVNBYRMKRSRYSQCURMRHLSQFRG 136  
 Db 801 LIQSYSMCLSSPALSRSYKHTNSCQLYRFLVNEERKHOQASMYELCGMHSQFLV 860

Qy 137 WLIQTRPBLCKMALLPSIIPVGDGLKNOKEFDELRNMYKELDRILTACKRNPFCSR 196  
 Db 861 RLQLTPEBYTMVVLILLSTIPKGDKLGSQAAPEMRNTYKELRKNTVKCPNNSQSWR 920

Qy 197 PYQTKLSDVQPLAREHOTPDJLJKSHMWVDFPMAEILIVQVKLISQVKPTY 255  
 Db 921 PYQTKLSDMHDVSLLEPCPYTFRESHALKVSPFAMLVETISDQLPKVSEGNKPLY 980

Qy 257 PH 258  
 Db 981 FH 982

RESULT 9  
 ; Sequence 13, Application US/08764870  
 ; General Information:  
 ; Applicant: Scanlan, Thomas S  
 ; Applicant: Baxter, John D  
 ; Applicant: Flatterick, Robert J  
 ; Applicant: Wagner, Richard L  
 ; Applicant: Kushner, Peter J  
 ; Applicant: Aprilletti, James W  
 ; Title of Invention: Nuclear Receptor Ligands and Ligand  
 ; Title of Invention: Binding Domains  
 ; Number of Sequences: 16  
 ; Correspondence Address:  
 ; Addressee: Cooley Godward  
 ; Street: Five Palo Alto Square, 3000 El Camino Real  
 ; City: Palo Alto  
 ; State: CA  
 ; Country: USA  
 ; Zip: 94306  
 ; Computer Readable Form:  
 ; Medium Type: Floppy disk  
 ; Computer: IBM PC compatible  
 ; Operating System: PC-DOS/MS-DOS  
 ; Software: Patentin Release #1.0, Version #1.30  
 ; Current Application Data:  
 ; Current Application Number: US/08/980-115  
 ; Current Filing Date: 1997-11-26  
 ; Earlier Application Number: 08/764,870  
 ; Earlier Filing Date: 1996-12-13  
 ; Earlier Application Number: 60/008,606  
 ; Earlier Filing Date: 1995-12-14

APPLICATION NUMBER: US/08/764,870  
 FILING DATE: 13-DEC-1996  
 CLASSIFICATION: 530  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,540  
 FILING DATE: 13-DEC-1995  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,543  
 FILING DATE: 13-DEC-1995  
 APPLICATION NUMBER: US 60/008,543  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,543  
 FILING DATE: 13-DEC-1995  
 APPLICATION NUMBER: US 60/008,543  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 60/008,543  
 FILING DATE: 14-DEC-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Nakamura, Jackie N  
 REGISTRATION NUMBER: 35,966  
 REFERENCE/DOCKET NUMBER: UCAL-246/01US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650) 843-5000  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 777 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: Protein  
 US-08-764-870-13

Query Match Best Local Similarity 49.3%; Score 662.5; DB 3; Length 777; Matches 125; Conservative 49; Mismatches 72; Indels 1; Gaps 1;

Qy 12 PIFANVLEAIEPGVUCAGHDNNQDPSFAAJSLSNEGEROLVHVKWAKALPGFMRNHF 71  
 Db 530 PTIVSLKIEPEPVIVGPGDSSKPDTPAENLJSTLRLAGKOMIOVVKWAKVLPSPKFLNPLEDOTT 589

Qy 72 DDOMAVTOSWGMVURANGWRSFTVNSRMLYFADLVNBYRMKRSRYSQCURMRHLSQFLV 131  
 Db 590 DDQMTLQISWMPMFAFLGWRSYRQSSANLICFAPDPLINBORMTLPQMDCKHMLV 649

Qy 132 SQEFGMILTPQBLCKMALLPSIIPVGDGLKNOKEFDELRNMYKELDRILTACKRNPFCSR 191  
 Db 650 SSELHLRQVSYEYBLCMKUILLLSSVPGKLSQBLFDEIRWMYKELKGKALVREGNS 709

Qy 192 SCSPRFYQTKLSDVQPLAREHOTPDJLJKSHMWVDFPMAEILIVQVKLISQVKPTY 251  
 Db 710 QMMPYQPTKLDMSHVSFVENLNYCQTPFLKTM-SIEPPMLAETINQPKVSGN 769

Qy 252 VPKIYFH 258  
 Db 769 IKKULFH 775

RESULT 10  
 ; Sequence 13, Application US/08980115  
 ; General Information:  
 ; Applicant: Scanlan, Thomas S  
 ; Applicant: Baxter, John D  
 ; Applicant: Flatterick, Robert J  
 ; Applicant: Wagner, Richard L  
 ; Applicant: Kushner, Peter J  
 ; Applicant: Aprilletti, James W  
 ; Title of Invention: Nuclear Receptor Ligands and Ligand  
 ; Title of Invention: Binding Domains  
 ; Number of Sequences: 16  
 ; Correspondence Address:  
 ; Addressee: Cooley Godward  
 ; Street: Five Palo Alto Square, 3000 El Camino Real  
 ; City: Palo Alto  
 ; State: CA  
 ; Country: USA  
 ; Zip: 94306  
 ; Computer Readable Form:  
 ; Medium Type: Floppy disk  
 ; Computer: IBM PC compatible  
 ; Operating System: PC-DOS/MS-DOS  
 ; Software: Patentin Release #1.0, Version #1.30  
 ; Current Application Data:  
 ; Current Application Number: US/08/980-115  
 ; Current Filing Date: 1997-11-26  
 ; Earlier Application Number: 08/764,870  
 ; Earlier Filing Date: 1996-12-13  
 ; Earlier Application Number: 60/008,606  
 ; Earlier Filing Date: 1995-12-14

TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS  
 CURRENT APPLICATION NUMBER: US/08/980,115  
 CURRENT FILING DATE: 1997-11-26  
 EARLIER APPLICATION NUMBER: 08/764,870  
 EARLIER FILING DATE: 1996-12-13  
 EARLIER APPLICATION NUMBER: 60/008,606  
 EARLIER FILING DATE: 1995-12-14

APPLICATION NUMBER: PR 95/00747  
 FILING DATE: 20-JAN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PR 95/06532  
 FILING DATE: 01-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PR 95/10541  
 FILING DATE: 08-SEP-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PR FR96/00088  
 FILING DATE: 19-JAN-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Pehlner Esq., Paul F.  
 REGISTRATION NUMBER: 35,135  
 REFERENCE/DOCKET NUMBER: ST95005G1-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (610) 454-3808  
 TELEFAX: (610) 454-3839

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 534 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein

US-08-875-223-8

Query Match, Best Local Similarity 51.3%; Score 644.5; DB 3; Length 534; Matches 122; Conservative 46; Mismatches 69; Indels 1; Gaps 1;

QY 21 TEPGVVCAHGDNQNPDSFALLSSNLEGERQVHVKWAKALPGFRNHLV 80  
 Db 3 IPEPEVYAG3DSSVPDSTWRIMTINMLGGRQVIAVAKWAKAIPGFRNHLDDOTLQ 62

QY 81 SWMGAVPRMGWRFPTNVRMFLFADPVENYRMHRSRMSOCVRMHLSSPFGWQI 140  
 Db 63 SWMFLMARAFLGWSYROSSANLCPAPLDTINFORMTLPOMYDCKHMLVSSBLHRLQ 122

QY 141 TPOETLCKMALLFSLIPDGKQKPFBLRMYKIELDRACKRKPSCSRFFQI 200  
 Db 123 SYEETLCKMALLFSLIPDGKQKPFBLRMYKIELDRACKRKPSCSRFFQI 182

QY 201 TKLADSVQPIARELHQFTDILKSHMVSDFPBMMASTISVQPKLISGKVKDPIYH 258  
 Db 183 TKLADSMHEVNLNLYCQTFDQTM-SIEPMLAKITINQPKVSGNIGNKKLHF 239

RESULT 11

US-08-875-223-8

Sequence 8, Application US/08875223

Patent No. 6127175

GENERAL INFORMATION:

APPLICANT: VIGNE, Emmanuelle

APPLICANT: PERRICAUDT, Michel

APPLICANT: DEBU, Jean-Francois

APPLICANT: ORSINI, Cecile

APPLICANT: YEH, Patrice

APPLICANT: LATTA, Martine

APPLICANT: PROST, Edward

TITLE OF INVENTION: CELLS FOR THE PRODUCTION OF RECOMBINANT ADENOVIRUSES

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADRESSEUR: Rhone-Poulenc Rorer Inc.

STREET: 500 Arcola Road, Mailstop 3C43

CITY: Collegeville

STATE: PA

COUNTRY: USA

ZIP: 19426

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/875,223

FILING DATE:  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:

PRIOR APPLICATION DATA:



TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 535-9901  
 TELEFAX: (619) 535-8949  
 INFORMATION FOR SEQ ID NO: 24:  
 SEQUNCI CHARACTERISTICS:  
 LENGTH: 284 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULAR TYPE: protein  
 US-09-149-976-24

Query Match 45.6%; Score 638.5; DB 3; Length 284; Matches 122; Conservative 49.4%; Pred. No. 3.5e-65; Mismatches 76; Indels 1; Gaps 1; Qy 12 PFLNVLVRAIEPGVVCAGHDNNNQPDSPAAALLSLNEGLGERQJHVVKWAKALPGFRNLHV 71 Db 37 PTIVLVLIEVIEPFLVLYGDSVPDSAWRIMTLLNMLGGRQVIAAVKWAIALGLRNHL 96 Qy 72 DDMQAVQYQSGMIVFAMGWSFTNNSRMLFAPDOLVNEPRMHKSRSRMSYSCVRMHL 131 Db 97 DDQMTLQYQSMWMLMAPALGWSYRQSSGNLLCPAPDLINNEORMSLCPMDOCKMLFV 156 Qy 132 S0EFGWQIQTPEFLCMKALLPSIIPVGDGLKNOKEFBLRMYTKEDRITACKRNP 191 Db 157 SSELQRLOQVSYSYLCMCKMLLSSVPGEGLKSQELFDRIRWYTKELGKATVREGNS 216 Qy 192 SCRRRFQIOTKLDSDVQPIARSLHQFTDPLIKSHMWSDPPEMAHISVQVKLISGK 251 Db 217 QWQRFVQIOTKLDSMHREWNLITYCQTEFLDTM-SIPEPLMAELITNQPKYSNGN 275 Qy 252 VPKIYFH 258 Db 276 IKKLHF 282

RESULT 15  
 US-07-716-827C-5  
 Sequence 5, Application US/07716827C  
 ; Patent No. 5215916  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Simons Jr., Stoney S.  
 ; APPLICANT: Yamamoto, K. R.  
 ; APPLICANT: Chakkabarti, P. K.  
 ; APPLICANT: Garabedian, M. J.  
 TITLE OF INVENTION: SUPER GLUCOCORTICOID RECEPTORS  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Cushman, Darby & Cushman  
 STREET: Eleventh floor, 1615 L Street, N.W.  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20036-5601  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/716,827C  
 FILING DATE: 19910519  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Scott, Watson T.  
 REGISTRATION NUMBER: 26,581  
 REFERENCE/DOCKET NUMBER: WTS/5683/84453  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 8613000  
 TELFAX: (202) 822-8944  
 TELEX: 6714627 CUSH  
 INFORMATION FOR SEQ ID NO: 5:  
 SEQUENCE CHARACTERISTICS:

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on:

October 9, 2003, 11:38:28 ; Search time 45 Seconds

917.087 Million cell updates/sec

Title: US-09-687-609A-1

Perfect score: 1371

Sequence: I-GSHMIEGTYCQPTFLNVEA.....SVOVPKLISGRKVPIYHTQ 260

Scoring table:

Gapext 10.0 , Gapext 0.5

Searched:

1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1981.DAT:\*

3: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1982.DAT:\*

4: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1983.DAT:\*

5: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1984.DAT:\*

6: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1985.DAT:\*

7: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1986.DAT:\*

8: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1987.DAT:\*

9: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1988.DAT:\*

10: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1989.DAT:\*

11: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1990.DAT:\*

12: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1991.DAT:\*

13: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1992.DAT:\*

14: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1993.DAT:\*

15: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1994.DAT:\*

16: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1995.DAT:\*

17: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1996.DAT:\*

18: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1997.DAT:\*

19: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1998.DAT:\*

20: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA1999.DAT:\*

21: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA2000.DAT:\*

22: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA2001.DAT:\*

23: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA2002.DAT:\*

24: /SIDSI/\_geodata/geneseq/geneseqp-emb1/AA2003.DAT:\*

## ALIGNMENTS

## RESULT 1

ID AAB97073 Standard; Protein; 260 AA.

XX AAB97073;

AC;

XX

DT 31-JUL-2001 (first entry)

XX

DB Rat androgen receptor ligand binding domain.

XX

XX

XX

XX

KW Rat; androgen receptor; AR; ligand binding domain; LBD; osteopathic; crystallographic structure; AR-LBD; AR modulator; prostate cancer; age related disease; osteoporosis; muscle wasting; libido; vasotropin; protein coordinate data.

XX

XX

XX

OS Rattus sp.

XX

PN WO200127622-A1.

XX

PD 19-APR-2001.

XX

PF 13-OCT-2000; 2000W0-US28495.

XX

PR 14-OCT-1999; 99US-0159394.

XX

PA (BRIM ) BRISTOL-MYERS SQUIBB CO.

XX

Weismann R, Binegar H, Krystek SR, Sack JS, Salvati ME;

PI Tokarski JS, Wang C, Attar RM;

XX WPI; 2001-30022/31.

DR

Rat androgen receptor

Canine Androgen receptor

Human androgen receptor

Androgen receptor

Human androgen receptor

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1371	100	0	Rat androgen receptor
2	1349.5	98.4	388	Human androgen receptor
3	1349.5	98.4	452	Ligand binding domain
4	1349.5	98.4	839	Human androgen receptor
5	1349.5	98.4	23	Fused androgen receptor
6	1349.5	98.4	839	Macaca mulatta and Macaca mulatta and Macaque androgen receptor
7	1349.5	98.4	23	Mouse androgen receptor
8	1349.5	98.4	895	Rat androgen receptor
9	1349.5	98.4	24	ABP72589
9	98.4	902	10	AAP99110

XX



XX  
PR 26-NOV-1997; 97US-0980115.  
XX  
PA (REGC ) UNIV CALIFORNIA.  
XX  
PI Apriletti JW, Baxter JD, Pletterick RJ, Kushner PJ;  
XX Scanlan TS, Shlau AK, Wagner RL, West BL;  
XX DR WPI; 1999-357810/30.  
XX PT Modulating activity of a thyroid hormone receptor  
XX PS Disclosure; FIG 3H-R; 447pp; English.  
XX CC The invention relates to a method for modulating activity of a thyroid  
CC hormone receptor that comprises administration of an aromatic compound  
CC which fits spatially and preferentially into a thyroid hormone ligand  
CC binding domain. The aromatic compound (of a specified formula) can be  
CC used to increase alpha-glycerophosphate dehydrogenase (GPDH) levels, at  
CC levels which do not significantly modify cardiac GPDH levels and are  
CC indicated in the treatment of obesity. The compound also lower total  
CC plasma cholesterol and triglyceride levels and can be used as anti-  
CC hypertriglyceridemic-agents. The compound may also be used for treating  
CC atherosclerosis and may be indicated in thyroid hormone replacement  
CC therapy in patients with compromised cardiac function. Sequenced  
CC amino acid sequences of ligand binding domains of several  
CC members of the nuclear receptor superfamily.  
XX SQ Sequence 452 AA;

Query Match 98.4%; Score 1349.5; DB 20; Length 452;  
Best Local Similarity 99.6%; Pred. No. 1.5e-132; Mismatches 0; Indels 1; Gaps 1;  
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGECOPFLAVLRAIEPGVCAHGNNQDPSAALLSNEIGEROLVHVTWAK 61  
Db 195 SH-IEGECOPFLAVLRAIEPGVCAHGNNQDPSAALLSNEIGEROLVHVTWAK 253

QY 62 ALPGFRLNLHDQMAVQYQYSWGMVAMWGSFTNTNSRMYFAPDLYFENYRMKSRM 121  
Db 254 ALPGFRLNLHDQMAVQYQYSWGMVAMWGSFTNTNSRMYFAPDLYFENYRMKSRM 313

QY 122 YSOCVRMHLSOBGMQLQTPQFCLMKALLFLSITPVGKNOKEPDBLRNMYKBLDR 181  
Db 314 YSOCVRMHLSOBGMQLQTPQFCLMKALLFLSITPVGKNOKEPDBLRNMYKBLDR 373

QY 182 IIACKRKNPITSRRFQLTKLDSVOPARLHQFDLILKSHMVSDFPMMABIS 241  
Db 374 IIACKRKNPITSRRFQLTKLDSVOPARLHQFDLILKSHMVSDFPMMABIS 433

QY 242 VQVPKILSGKVKPIYFHTQ 260  
Db 434 VQVPKILSGKVKPIYFHTQ 452

RESULT 4  
ABG71292 ID ABG71292 standard; Protein; 839 AA.  
XX AC ABG71292;  
XX DT 08-JAN-2003 (first entry)  
XX DB Human androgen receptor.  
XX Human androgen receptor.

XX AC Pharmacological; receptor; endocrine disrupting chemical; EDC;  
XX KW simultaneous determination; ligand binding activity; human;  
XX KW androgen receptor.

XX OS Chimeric - Homo sapiens.  
OS Chimeric - Bacteria.  
OS Synthetic.

XX PN JP2002243739-A.  
XX ID AAG68238 standard; Protein; 839 AA.  
XX AC AAG68238;  
XX DT 08-FEB-2002 (first entry)  
XX DB Fused androgen receptor (AR) protein SEQ ID NO:11.  
XX Human; androgen receptor; AR; fused androgen receptor protein;  
KW fusion androgen receptor protein; sugar-combining protein;  
KW maltose-combining protein.  
XX OS Chimeric - Homo sapiens.  
OS Chimeric - Unidentified.  
XX PN JP2001252080-A.  
XX

PD XX  
 XX  
 PR XX  
 13-MAR-2000; 2000JP-0069030.  
 XX  
 PR XX  
 13-MAR-2000; 2000JP-0069030.  
 XX  
 PR XX  
 (TOYM ) TOKUBO KK.  
 XX  
 DR XX  
 DR N-PADB; ABA01683.  
 WPI; 2002-039658/04.  
 N-PADB; ABA01683.  
 PR New polypeptide for screening drugs, comprises an androgen receptor  
 protein fused with a sugar-combining protein -  
 XX  
 PS XX  
 The present invention describes a fused androgen receptor (AR) protein  
 prepared by fusing an androgen receptor protein with a sugar-combining  
 protein. Also described are: (1) a gene, encoding the above fused AR  
 protein; (2) a vector carrying the above gene; (3) a transformant in  
 which the above vector is introduced to a microbe and a gene encoding  
 the fused AR protein is expressed; (4) the preparation of a fused AR  
 protein in which the above transformant is cultured and the fused AR  
 protein is collected from the resultant culture; and (5) a reagent for  
 detecting the presence or interaction with a ligand containing the  
 above fused AR protein, a solvent for dissolving chemical substances  
 and a diluent liquid of the dissolved chemical substances. The fusion  
 protein can be used for screening drugs. The present sequence repre-  
 sent the AR protein and sugar-combining protein fusion protein from the  
 present invention.  
 XX  
 SQ Sequence 839 AA:  
 Query Match 98.4%; Score 1349.5; DB 23; Length 839;  
 Best Local Similarity 99.6%; Pred. No. 3.6e-132; Gaps  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps  
 OY 2 SHIMTEGGYSCOPTIFANVLEAIEPGVVCAGEDNNQDPSFAALLSSNLEGEROLYHVVKWAK  
 DB 582 SH-IEGYECQPIFLNVNEAIEPGVVCAGHDNNQDPSFAALLSSNLEGERQLHVVKWAK  
 QY 62 ALPGFRNLAVTDOMAVIOVSWMGAMVPMANGWRSPTVNNSRMLFAPDLYVNEYRMMHSRM  
 DB 641 ALPGFRNLAVDDQHNAVQISWMGAMVPMANGWRSPTVNNSRMLFAPDLYVNEYRMMHSRM  
 QY 122 YSCQVTRMHISQFGWLIQTPQFICMKAHLLSIIPDGKNOKEFELRMYIKGDLR  
 DB 701 YSCQVTRMHISQFGWLIQTPQFICMKAHLLSIIPDGKNOKEFELRMYIKGDLR  
 QY 182 IIACKRKOPTCSCSRPFYQIKLUDSQPTARELHQFTDILKSHMSVDPFMMAMETIS  
 DB 761 IIACKRKOPTCSCSRPFYQIKLUDSQPTARELHQFTDILKSHMSVDPFMMAMETIS  
 QY 242 VQVPKILSGRKVPTYFHTQ 260  
 DB 821 VQVPKILSGRKVPTYFHTQ 839  
 RESULT 6  
 AAE32935 ID AAE32935 standard; Protein: 895 AA.  
 AC XX  
 AC AAE32935;  
 DT 02-APR-2003 (first entry)  
 DE Macaca mulatta androgen receptor (rhar).  
 XX  
 KW myoanabolism; sarcopenia; benign prostatic hyperplasia; hypogonadism;  
 KW lipid metabolism; hirsutism; prostate disease; hippocampal function;  
 KW cancer; rhesus monkey; single nucleotide polymorphism; SNP; therapy.  
 XX

XX	FH	Key	Location/Qualifier
XX	PT	Misc-difference	210
XX	PT	/notes	"This residue changes to Gly due to single nucleotide polymorphism (SNP)"
XX	PT	535..600	/note= "DNA binding domain"
XX	PT	WO200290529-A1.	
XX	PD	14-NOV-2002.	
XX	PP	03-MAY-2002; 2002WO-US14175.	
XX	PR	08-MAY-2001; 2001US-289573P.	
XX	PA	(MERRI ) MERCK & CO INC.	
XX	PI	Towler DA, Chen F;	
XX	DR	WPT; 2003-103516/09.	
XX	DR	N-PSSDB; AAD50740.	
XX	PT	New DNA encoding Macaca mulatta androgen receptor (rhAR) protein, useful for screening rhAR agonists and/or antagonists, and in identifying tissue selective androgen compounds such as those active in bone formation or myoanabolism -	
XX	PS	Claim 25; Page 38; 8App; English.	
XX	CC	The invention relates to a DNA encoding Macaca mulatta androgen receptor (rhAR) protein. Nucleic acid molecules of the invention are useful for screening agonists and/or antagonists of rhAR and in identifying tissue selective androgen compounds including those active in bone formation, myoanabolism, treatment of sarcopenia, benign prostatic hyperplasia, acne, hirsutism, male hypogonadism, atherosclerosis, relief of post-menopausal symptoms, treatment and prevention of prostate or breast cancer and management of lipids. AR modulators may be used to regulate development, production and maintenance of bone and muscle, in the treatment of prostate disease and in regulation of lipid metabolism and hippocampal function. The present sequence is Macaca mulatta (rhesus monkey) androgen receptor.	
XX	SQ	Sequence 895 AA:	
		Query Match 98.4%; Score 1349.5; DB 24; Length 895; Best Local Similarity 99.6%; Pred. No. 3.9e-132; Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;	
QY	2	SHMTIEGYCQPIFLANVLAERPGCVVAGHDNNQDPSFLAIISSINTEGEROLVHVVKWAK 61	
Db	638	SH-1BGEQCPQPIFLNVLAERPGCVVAGHDNNQDPSFLAIISSINTEGEROLVHVVKWAK 696	
QY	62	ALPGRNHLVDDOMAVIQYQSMGIMVAMGRSPPTNNSRMLYFAPDVLVNEYTRMHNSRM 121	
Db	697	ALPGRNHLVDDOMAVIQYQSMGIMVAMGRSPPTNNSRMLYFAPDVLVNEYTRMHNSRM 756	
QY	122	YSCVVRMHLISQFGMLOITPQFLCKMALLPSITFVGDGLKQKFDELRYMYKSDLR 181	
Db	757	YSCVVRMHLISQFGMLOITPQFLCKMALLPSITFVGDGLKQKFDELRYMYKSDLR 816	
QY	182	IACKRQPTCSRRFKQTKLIDSQPIARELHQFTFDLILTKSHMVSVDPEMMARIS 241	
Db	817	IACKRQPTCSRRFKQTKLIDSQPIARELHQFTFDLILTKSHMVSVDPEMMARIS 876	
QY	242	VQPKLISGKVQIYFFHQ 260	
Db	877	VQPKLISGKVQIYFFHQ 895	

ID	AAB32996	standard; Protein; 895 AA.	Db	757 YSQCVRKHLSQBRGMQITPQFLCKHALLPSIPVDCIKNQKPFDLRBNVYIKELDR 816
XX			Qy	182 IACKRNPSTSRRFQVQLKLDSTQPAHLHQTFPLLTKSHMSVDPPEMMARIS 241
AC	AAB32996;		Db	817 IIACKRNPSTSRRFQVQLKLDSTQPAHLHQTFPLLTKSHMSVDPPEMMARIS 876
XX	02-APR-2003	(first entry)	Oy	242 VVPKLISGRKPKIVHFO 260
DT			Db	877 VVPKLISGRKPKIVHFO 895
XX	Macaca mulatta androgen receptor (rhar) allelic variant protein.			
XX	Androgen receptor; rhar protein; bone formation; atherosclerosis; acne;			
KW	myoanabolism; barcoding; benign prostatic hyperplasia; hypergonadism;			
KW	lipid metabolism; hirsutism; prostate disease; hippocampal function;			
KW	cancer; rhesus monkey; single nucleotide polymorphism; SNP; therapy.			
XX	Macaca mulatta.			
OS				
XX		Key' location/Qualifiers		
PH				
FT	misc-difference 210			
FT	/note= "wild-type Glu is changed to Gly due to single			
FT	nucleotide polymorphism (SNP)" 535:600			
FT	/note= "DNA binding domain"			
Domain				
XX				
FT				
FT				
PA	(MERI ) MERCK & CO INC.			
XX				
XX	14-NOV-2002.			
XX				
PP	03-MAY-2002; 2002WO-US14175.			
XX				
PR	08-MAY-2001; 2001US-289573P.			
XX				
PA	(MERI ) MERCK & CO INC.			
XX				
XX	Towler DA, Chen F;			
XX				
DR	WPI; 2003-103516/09.			
DR				
XX				
XX	N-PSDB; AAB50741.			
XX				
PT	New DNA encoding Macaca mulatta androgen receptor (rhar) protein, useful for screening rhar agonists and/or antagonists, and in identifying tissue			
PT	selective androgen compounds such as those active in bone formation, bone formation or myoanabolism			
PT				
PS	Claim 55; Page 46; 89pp; English.			
XX				
CC	The invention relates to a DNA encoding Macaca mulatta androgen receptor (rhar) protein. Nucleic acid molecules of the invention are useful for screening agonists and/or antagonists of rhar and in identifying tissue			
CC	selective androgen compounds including those active in bone formation, myoanabolism, treatment of sarcopenia, benign prostatic hyperplasia, acne, hirsutism, male hypogonadism, atherosclerosis, relief of post-menopausal symptoms, treatment and prevention of prostate or breast cancer and management of lipids. AR modulators may be used to regulate development, production and maintenance of bone and muscle, in the treatment of prostate disease and in regulation of lipid metabolism and hippocampal function. The present sequence is Macaca mulatta (rhesus monkey) androgen receptor allelic variant protein.			
XX				
SQ	Sequence 895 AA;			
Query Match	98.4%; Score 1349.5; DB 24; Length 895;			
Best Local Similarity	99.6%; Pct. No. 3.9e-132; Mismatches 0; Indels 1; Gaps 1;			
Matches	258; Conservative 0; Determining the effect of a steroid on the AR by incubating the steroid with an AR disrupted cell line and assaying its effect. A claimed method of evaluating treatment for cancer xenografts involves injecting a cell that has a disrupted AR locus into an ovariectomised mouse, especially a nude mouse, where the xenograft comprises a cell from a breast cancer or ovarian cancer tissue line. Tumour formation can be evaluated in an androgen receptor knockout (ARKO) mouse by injecting the cancer-causing agent into the mouse.			
Qy	2-SHIMIGYECQPIFLVLAIEPGVWCAHGHDNNQPSFALLSISNLGEROIVHVKWAK 61			
Db	638 SH-IEGYECQPIFLVLAIEPGVWCAHGHDNNQPSFALLSISNLGEROIVHVKWAK 696			
Oy	62 ALPGFRMLHVDDOMAVIQYSWQGLMVAMGWGSPTNNSRMLYFAPDLYFVYRMRKSM 121			
Db	697 ALPGFRMLHVDDOMAVIQYSWQGLMVAMGWGSPTNNSRMLYFAPDLYFVYRMRKSM 756			
Oy	122 YSQCVRKHLSQBRGMQITPQFLCKHALLPSIPVDCIKNQKPFDLRBNVYIKELDR 181			
SQ	Sequence 899 AA;			
Query Match	98.4%; Score 1349.5; DB 24; Length 899;			

Best Local Similarity 99.6%; Pred. No. 4e-132; Mismatches 0; Indels 1; Gaps 1;

Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Query 2 SHMIREGYRCQPIPLVLAIRPGWVCAHGHNQNPSPFALLSISNLGEROLVHVKWAK 61

Db 642 SH-IRGYECQPIPLVLAIRPGWVCAHGHNQNPSPFALLSISNLGEROLVHVKWAK 703

Qy 62 ALPGFRNLHVQDMAVIQYSGWMLVFMGRSFIVNSRMLYFADLWVNEYRMKSRM 61

Db 701 ALPGFRNLHVQDMAVIQYSGWMLVFMGRSFIVNSRMLYFADLWVNEYRMKSRM 700

Qy 122 YSQCVRMHLSQERGMQIQTQBFCLMKALLSIIIPDGKQXPFDELRYMVKELDR 181

Db 761 YSQCVRMHLSQERGMQIQTQBFCLMKALLSIIIPDGKQXPFDELRYMVKELDR 181

Qy 182 IACKRKNTPSCSRPFQYQLTKLDSVQPIARELHOPTFDLILKSHMVSDFPMMARIS 241

Db 821 IACKRKNTPSCSRPFQYQLTKLDSVQPIARELHOPTFDLILKSHMVSDFPMMARIS 880

Qy 242 VQVPKILSGKVKPIYHTQ 260

Db 881 VQVPKILSGKVKPIYHTQ 899

RESULT 9

ID AAP93110 standard; protein; 902 AA.

XX

AC AAP93110;

XX

DT 25-MAR-2003 (updated)

DT 19-MAR-1990 (first entry)

DE Rat androgen receptor.

XX

KW Rat androgen receptor; monoclonal antibody; polyclonal antibody; cancer.

JKX OS Rattus rattus.

XX

PN WO8909791-A.

XX

PR 14-APR-1988; 88US-0182646.

XX

PA (UNIV- ) UNIV OF N CAROLINA.

XX

PT French FS, Wilson EM, Joseph DR, Lubahn DB;

XX

DR WPI; 1989-324206/44.

DR N-PSDB; AAN91773.

XX

PT DNA encoding androgen receptor protein - useful for transforming eukaryotic hosts for protein expression and subsequent antibody prodn.

PS Disclosure; Fig. 5; 41pp; English.

XX

CC Androgen receptor protein (AR) is used to produce mono- or poly-clonal antibodies. These are used for the detection and quantification of AR in the presence of endogenous androgen, as androgen will not interfere with binding. They may be used in assays to determine and quantify cellular distribution of AR in tumour tissue, and are esp. useful for evaluating prostate cancers to determine responsiveness to androgen withdrawal therapy.

CC (Updated on 25-MAR-2003 to correct PA field.)

XX

SQ Sequence 902 AA;

Query Match 98.4%; Score 1349.5; DB 10; Length 902;

Best Local Similarity 99.6%; Pred. No. 4e-132;

Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 2 SHMIREGYRCQPIPLVLAIRPGWVCAHGHNQNPSPFALLSISNLGEROLVHVKWAK 61

Db 645 SH-IRGYECQPIPLVLAIRPGWVCAHGHNQNPSPFALLSISNLGEROLVHVKWAK 703

Qy 62 ALPGFRNLHVQDMAVIQYSGWMLVFMGRSFIVNSRMLYFADLWVNEYRMKSRM 121

Db 704 ALPGFRNLHVQDMAVIQYSGWMLVFMGRSFIVNSRMLYFADLWVNEYRMKSRM 763

Qy 122 YSQCVRMHLSQERGMQIQTQBFCLMKALLSIIIPDGKQXPFDELRYMVKELDR 181

Db 764 YSQCVRMHLSQERGMQIQTQBFCLMKALLSIIIPDGKQXPFDELRYMVKELDR 823

Qy 182 IACKRKNTPSCSRPFQYQLTKLDSVQPIARELHOPTFDLILKSHMVSDFPMMARIS 241

Db 824 IACKRKNTPSCSRPFQYQLTKLDSVQPIARELHOPTFDLILKSHMVSDFPMMARIS 883

Qy 242 VQVPKILSGKVKPIYHTQ 260

Db 884 VQVPKILSGKVKPIYHTQ 902

RESULT 10

ID AAP91006

XX

AC AAP91006;

XX

DT 25-MAR-2003 (updated)

DT 28-FEB-1990 (first entry)

DE Rat androgen receptor DNA clone.

XX

KW Androgen receptor; TR2 polypeptide;

XX

OS Rat.

XX

PT Key Location/Qualifiers

PT Region 1..902

PT /\*tag= a

PT /product=98 kd polypeptide

PT Region 170..902

PT /\*tag= b

PT /product=79 kd polypeptide

XX

PN WO8909223-A.

XX

PR 05-OCT-1989.

XX

PT 24-MAR-1989; 89WO-JP01238.

XX

PR 30-MAR-1988; 88US-0176107.

PR 05-OCT-1988; 88US-0252807.

PR 21-FEB-1989; 89US-0312763.

XX

PA (ARCH- ) ARCH DEV CORP.

XX

PT Liao S, Chang C;

XX

DR WPI; 1989-309501/42.

XX

PT New DNA encoding new androgen receptor and TR2 polypeptide(s) - able to bind DNA, and derived antibodies, useful for receptor assay and purification.

XX

PS Claim 8; Fig 3; 60pp; English.

XX

CC The protein is used to raise antibodies for receptor assays and for affinity purification.

CC The 98 kd product starts at the first Met codon; the 79 kd product starts from the second.

CC (Updated on 25-MAR-2003 to correct PF field.)

CC (Updated on 25-MAR-2003 to correct PR field.)  
 CC (Updated on 25-MAR-2003 to correct PA field.)  
 CC  
 XX  
 SQ Sequence 902 AA;

Query Match 98.4%; Score 1349.5; DB 10; Length 902;  
 Best Local Similarity 99.6%; Pred. No. 4e-132; 0; Mismatches 1; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 DB 645 SH-IEGYECQPIFLNLVLEAIPGVICAGHDNNQPSFAALLSLNELGEROLVHVKWAK 703

QY 62 ALPGFRNLHVDDOMAVIOTYQSGWMLVPMGWRSTINNSRMVYAPDOLVNEYRMKRM 121  
 704 ALPGFRNLHVDDOMAVIOTYQSGWMLVPMGWRSTINNSRMVYAPDOLVNEYRMKRM 763

QY 122 YSQCVRMHLSQEGWMLQITPQBLCMKALLLSIIPVQGLKNOKFDELRMNYKELDR 181  
 764 YSQCVRMHLSQEGWMLQITPQBLCMKALLLSIIPVQGLKNOKFDELRMNYKELDR 823

QY 182 IIACKRKNPSCSRRYQVLTQKLDSVOPARBLHOFTEFLIKSHMVSDFPENNMAELIS 241  
 824 IIACKRKNPSCSRRYQVLTQKLDSVOPARBLHOFTEFLIKSHMVSDFPENNMAELIS 883

Db 242 VQVPKILSGKVKPIVFTQ 260  
 884 VQVPKILSGKVKPIVFTQ 902

RESULT 11

ABG74229  
 ID ABG74229 Standard; Protein: 907 AA.  
 XX  
 AC ABG74229;  
 KK  
 DT 16-APR-2003 (first entry)  
 XX  
 DB Canine Androgen receptor.  
 XX  
 QD: receptor; androgen receptor; AR; cyrostatic; osteopathic;  
 KW neuroleptic; canine disorder; cancer; mood disorder; temper disorder;  
 KW frailty; muscular degeneration; bone loss.  
 OS Canis familiaris.  
 XX  
 PN US2002161194-A1.  
 XX  
 PD 31-OCT-2002.  
 XX  
 PP 09-NOV-2001; 2001US-00008739.  
 XX  
 PR 09-NOV-2000; 2000US-247373P.  
 XX  
 PA (CAST/) CASTLEBERRY T A.  
 PA (LUBB/) LU B.  
 PA (OWEN/) OWEN T A.  
 PA (SMOC/) SMOCK S L.

PI Castleberry TA, Lu B, Owen TA, Smock SL;  
 DR WPI: 2003-209230/20.  
 XX  
 PT New isolated canine androgen receptor protein, useful for diagnosing, classifying, prognosis and/or treating canine diseases (e.g. cancer) and in studying the molecular and biochemical actions of androgens in canine bone.

CC Claim 1; Fig 1; 20pp; English.

CC The invention relates to an isolated proteinaceous molecule having canine androgen receptor (AR) activity (appearing as ABG74229), optionally

CC having one or more conservative substitutions. Also included are an isolated DNA molecule encoding the above proteinaceous molecule, a recombinant expression vector comprising the above DNA molecule, a cell transformed by the expression vector cited above, producing the proteinaceous molecule by culturing the cell cited above, a specific binding partner that selectively binds to the proteinaceous molecule, discovering ligands for the canine AR protein, and discovering modulators of canine AR protein activity. The proteinaceous molecule is useful in veterinary purposes for diagnosing, classifying, prognosis and/or treating canine disorders (e.g. cancer, mood or temper disorders, and frailty associated with muscular degeneration or bone loss) which maybe characterized as related to the interaction between a cell receptor and its specific ligand, and in further studying the molecular and biochemical actions of androgens in canine bone. The DNA molecule encoding the proteinaceous molecule is used in DNA hybridisation processes to locate the canine gene position and/or the position of any related gene family in a chromosomal map. These may also be used for identifying canine gene disorders at the DNA level and used as gene markers for identifying neighbouring genes and their disorders.

CC The present sequence represents the canine androgen receptor.

XX

Sequence 907 AA;

Query Match 98.4%; Score 1349.5; DB 24; Length 907;  
 Best Local Similarity 99.6%; Pred. No. 4e-132; 0; Mismatches 1; Indels 1; Gaps 1;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Db 650 SH-IEGYECQPIFLNLVLEAIPGVICAGHDNNQPSFAALLSLNELGEROLVHVKWAK 703

QY 62 ALPGFRNLHVDDOMAVIOTYQSGWMLVPMGWRSTINNSRMVYAPDOLVNEYRMKRM 121  
 709 ALPGFRNLHVDDOMAVIOTYQSGWMLVPMGWRSTINNSRMVYAPDOLVNEYRMKRM 763

QY 122 YSQCVRMHLSQEGWMLQITPQBLCMKALLLSIIPVQGLKNOKFDELRMNYKELDR 181  
 769 YSQCVRMHLSQEGWMLQITPQBLCMKALLLSIIPVQGLKNOKFDELRMNYKELDR 823

QY 182 IIACKRKNPSCSRRYQVLTQKLDSVOPARBLHOFTEFLIKSHMVSDFPENNMAELIS 241  
 829 IIACKRKNPSCSRRYQVLTQKLDSVOPARBLHOFTEFLIKSHMVSDFPENNMAELIS 883

Db 242 VQVPKILSGKVKPIVFTQ 260  
 889 VQVPKILSGKVKPIVFTQ 907

RESULT 12

AY33491  
 ID AY33491 Standard; Protein: 918 AA.  
 XX  
 AC AY33491;  
 XX  
 DT 19-JAN-2000 (first entry)  
 XX  
 DB Human androgen receptor protein.

XX  
 PA (PROSOPOTIC; dependence domain; p75NTR; androgen receptor; DCC; huntingtin polyptide; Machado-Joseph disease; SCA1; SC12; SC16; Alzheimer's disease; Kennedy's disease; spinocerebellar atrophy; stroke; dentatorubropallidoluysian atrophy; cell proliferation; cell survival; neoplastic; malignant; autoimmune; fibrotic.  
 XX  
 OS Homo sapiens.

XX  
 PN WO945944-A1.  
 XX  
 PD 16-SEP-1999.

XX  
 PP 11-MAR-1999; 99WO-US05250.  
 XX

PR	12-MAR-1998;	98US-0041886.
XX		
PA	(BURN-)	BURNHAM INST.
XX		
PI	Bredesen DE, Rabizadeh S;	
XX		
DR	WPI; 1999-561617/47.	
DR	N-PSDB; AA223424.	
PT	New proapoptotic dependence peptides, used to develop products for	
PT	treating, e.g. Alzheimer's disease -	
XX		
PS	Disclosure: Page 90-93; 199pp; English.	
XX		
CC	This invention describes novel pure proapoptotic dependence Peptides which comprise a sequence of an active dependence domain selected from dependence polypeptides consisting of p75NTR, androgen receptor, DCC, huntingtin polyPeptide, Machado-Joseph disease gene product, SCA1, SCA2, SCA6 and atrophin-1 polyPeptide. The proapoptotic peptides are capable of inducing cell death or can be used to develop products to mediate or inhibit apoptosis. The methods can be used for reducing the severity of a proapoptotic dependence domain mediated pathological conditions e.g. Huntington's disease, Alzheimer's disease, Kennedy's disease, Spinocerebellar ataxias, dentatorubro pallidoluysian atrophy, Machado-Joseph disease, stroke or head trauma. They can also be used for reducing the severity of a pathological condition mediated by upregulated cell proliferation or cell survival e.g. neoplastic, malignant, autoimmune or fibrotic conditions. This sequence represents a human androgen receptor described in the method of the invention.	
CC		
CC	Spinocerebellar ataxias, dentatorubro pallidoluysian atrophy, Machado-Joseph disease, stroke or head trauma. They can also be used for reducing the severity of a pathological condition mediated by upregulated cell proliferation or cell survival e.g. neoplastic, malignant, autoimmune or fibrotic conditions. This sequence represents a human androgen receptor described in the method of the invention.	
XX		
SQ	Sequence 918 AA;	
↓	Query Match 98.4%; Score 1349.5; DB 20; Length 918;	
↓	Best Local Similarity 99.6%; Pred. No. 4.1e-132; Mismatches 0; Indels 1; Gaps 1;	
↓	Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;	
↓		
SY	2 SHMIRGYECOPIFAVIFLNAEIPGPGVCAHGHDNQDPSPAFALLSSNELGERQVHVKWAK 61	
DB	661 SH-IRGYECOPIFAVIFLNAEIPGPGVCAHGHDNQDPSPAFALLSSNELGERQVHVKWAK 719	
QY	62 ALPGERNLHYDDQMAVIOQYSWMLAVFAMGRSFTVNNSRLYFADLVLVNEYRMEKSRM 121	
DB	720 ALPGERNLHYDDQMAVIOQYSWMLAVFAMGRSFTVNNSRLYFADLVLVNEYRMEKSRM 779	
QY	122 YSQCYTRMRHHSQERGMLQTPQERFLKMLLPSLIPDVGLKNOQKFDELNNYTKELDR 181	
DB	780 YSQCYTRMRHHSQERGMLQTPQERFLKMLLPSLIPDVGLKNOQKFDELNNYTKELDR 839	
QY	182 LIACKRKNPITSCSRQYVQLTKLDSQPIARLHPTFLDLIKSMVSDPEMMARIS 241	
DB	840 LIACKRKNPITSCSRQYVQLTKLDSQPIARLHPTFLDLIKSMVSDPEMMARIS 899	
QY	242 VQVPKILSGKVKPIVFTQ 260	
DB	900 VQVPKILSGKVKPIVFTQ 918	
RESULT 13		
ID	AAP9096 standard; protein; 919 AA.	
XX		
AC	AAP9096;	
DT	25-MAR-2003 (updated)	
DT	28-FEB-1990 (first entry)	
DE	Human androgen receptor DNA clone.	
XX		
XX	Androgen receptor; TR2 polypeptide;	
OS	Homo sapiens.	
XX		
Key	Location/Qualifiers	

DE Audrogen receptor.  
 XX  
 KW Androgen receptor; acidic fibroblast growth factor; aFGF;  
 KW antisense; benign prostatic hyperplasia; prostate cancer; therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9711170-A1.  
 XX  
 PD 27-MAR-1997.  
 XX  
 PR 20-SEP-1996; 96WO-US15081.  
 PR 20-SEP-1995; 95US-0004018.  
 PA (WORC-) WORCESTER FOUND BIOMEDICAL RES.  
 XX  
 PT Zamecnik PA;  
 XX  
 DR WPI; 1997-202879/18.  
 DR N-FSDB; AAT63407.  
 XX  
 PT Oligonucleotide(s) antisense to human androgen receptor and acidic  
 PT PGR genes - used to inhibit gene expression, for the treatment of  
 PT benign prostatic hyperplasia.  
 XX  
 PS Disclosure: Page 22-28; 51PP; English.  
 XX  
 CC Human androgen receptor (AAW14733) binds testoaterone and, acting  
 CC at the transcriptional level, regulates the growth of normal  
 CC prostatic cells. Antisense oligonucleotides (see also AR63100,  
 CC AR63404-05) based on an androgen receptor cDNA clone (see also  
 CC AR63407) can be used to prevent androgen receptor gene expression,  
 CC thereby inhibiting the growth or survival of prostatic cells for  
 CC the treatment of benign prostatic hyperplasia and prostate cancer.  
 XX  
 SQ Sequence 919 AA;  
 Query Match 98.4%; Score 1349.5; DB 18; Length 919;  
 Best Local Similarity 99.6%; Pred. No. 4.1e-132;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 QY 2 SHIMISGYECOPFLAVNLAIRAEPEGVCAHGNQDPSFAALLSISNLGEROLVHVKWAK 61  
 Db 662 SH-IEGVFCOPFLAVNLAIRAEPEGVCAHGNQDPSFAALLSISNLGEROLVHVKWAK 720  
 Qy 62 ALPGFRNLHYDQMAVYQSMWGLMFAMGAWSPINTNSRMLYFAPDVLVNEYRMHSRM 121  
 Db 721 ALPGFRNLHYDQMAVYQSMWGLMFAMGAWSPINTNSRMLYFAPDVLVNEYRMHSRM 780  
 Qy 122 YSQCVRMRLHSQEPGWLQITPQBLCKMALLFSLIPVQGLKQKFDELRYMYKELDR 181  
 Db 781 YSQCVRMRLHSQEPGWLQITPQBLCKMALLFSLIPVQGLKQKFDELRYMYKELDR 840  
 Qy 182 IIACKRKNPSCSRFLKQTLKIDSVOPARLHQFFPDLIKSHMWSDPEMMABIS 241  
 Db 841 IIACKRKNPSCSRFLKQTLKIDSVOPARLHQFFPDLIKSHMWSDPEMMABIS 900  
 Qy 242 VQVKPLISGKVPIYFHTQ 250  
 Db 901 VQVKPLISGKVPIYFHTQ 919  
 RESULT 15  
 AAY78914  
 ID AAY78914 standard; protein; 919 AA.  
 XX  
 AC AAY78914;  
 XX  
 DT 23-MAY-2000 (first entry)  
 XX  
 DE Human androgen receptor (AR) amino acid sequence.  
 XX  
 KW Androgen receptor; AR; androgen-independent activation; inhibitor;  
 KW cancer; benign prostatic hyperplasia; hirsutism; androgenic alopecia;  
 KW acne; breast cancer; Kennedy disease; prostate cancer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200001813-A2.  
 XX  
 PD 13-JAN-2000.  
 XX  
 PR 30-JUN-1999; 99WO-CA00504.  
 PR 30-JUN-1998; 98US-0091871.  
 PA (UYBR-) UNTV BRITISH COLUMBIA.  
 PR Sadar ND, Bruchovsky N, Gout PW, Snoek R, Mawji NR;  
 XX  
 DR WPI; 2000-182113/16.  
 XX  
 PT Novel non-androgen ligand binding peptides for inhibiting  
 PT androgen-independent activation of androgen receptor, used for  
 PT screening compounds and for treatment of androgen-mediated diseases  
 PT such as prostate cancer -  
 XX  
 PS Disclosure: Page 7; 32PP; English.  
 XX  
 CC This sequence represents the human androgen receptor (AR) amino acid  
 CC sequence. The invention relates to a fragment of the AR corresponding to  
 CC amino acids 234-391 (see AAY78913). The fragment mediates  
 CC androgen-independent activation of the AR. The androgen receptor acts as  
 CC a transcription factor, regulating the expression of certain  
 CC androgen-responsive genes. Interaction of the AR with the protein kinase  
 CC A signal transduction pathway involves interaction with the androgen  
 CC independent region. The AR fragment and peptides derived from it can be  
 CC used as agents for inhibiting androgen independent activation of the  
 CC androgen receptor, as activation domain, and as a tool for screening  
 CC for compounds which affect androgen-independent activation of the AR.  
 CC The peptides, when used in combination with androgen deprivation,  
 CC effectively limit androgen mediated disease progression. These diseases  
 CC include cancer, benign prostatic hyperplasia, hirsutism, androgenic  
 CC alopecia, acne, breast cancer, Kennedy disease, and especially prostate  
 CC cancer. The peptides and nucleic acids encoding them, are especially used  
 CC for the treatment of androgen-mediated diseases, especially prostate  
 tumours in patients deprived of androgen.  
 XX  
 SQ Sequence 919 AA;  
 Query Match 98.4%; Score 1349.5; DB 21; Length 919;  
 Best Local Similarity 99.6%; Pred. No. 4.1e-132;  
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 QY 2 SHIMISGYECOPFLAVNLAIRAEPEGVCAHGNQDPSFAALLSISNLGEROLVHVKWAK 61  
 Db 662 SH-IEGVFCOPFLAVNLAIRAEPEGVCAHGNQDPSFAALLSISNLGEROLVHVKWAK 720  
 Qy 62 ALPGFRNLHYDQMAVYQSMWGLMFAMGAWSPINTNSRMLYFAPDVLVNEYRMHSRM 121  
 Db 721 ALPGFRNLHYDQMAVYQSMWGLMFAMGAWSPINTNSRMLYFAPDVLVNEYRMHSRM 780  
 Qy 122 YSQCVRMRLHSQEPGWLQITPQBLCKMALLFSLIPVQGLKQKFDELRYMYKELDR 181  
 Db 781 YSQCVRMRLHSQEPGWLQITPQBLCKMALLFSLIPVQGLKQKFDELRYMYKELDR 840  
 Qy 182 IIACKRKNPSCSRFLKQTLKIDSVOPARLHQFFPDLIKSHMWSDPEMMABIS 241  
 Db 841 IIACKRKNPSCSRFLKQTLKIDSVOPARLHQFFPDLIKSHMWSDPEMMABIS 900  
 Qy 242 VQVKPLISGKVPIYFHTQ 260  
 Db 901 VQVKPLISGKVPIYFHTQ 919

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